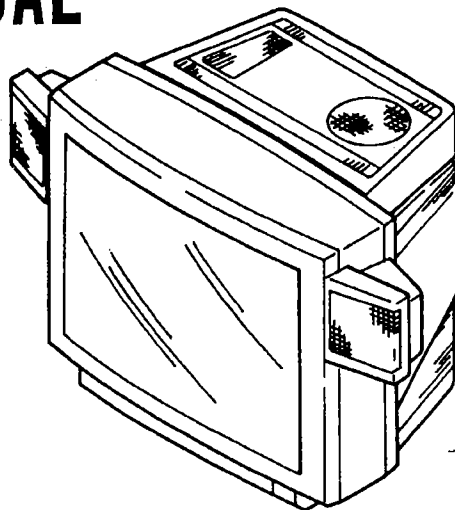


8301

KV-27XBR50

RM-786

SERVICE MANUAL



US Model
Chassis No. SCC-C59K-A
Canadian Model
Chassis No. SCC-C60J-A

ANU-1 CHASSIS

Note: The service manual for RM-786 has been issued separately.

MODELS OF THE SAME SERIES

KV-27XBR50	KV-27HSR10
KV-27XBR15	KV-27XBR10
KV-27XBR60	

SPECIFICATIONS

Television system	American TV standards
Channel coverage	VHF : 2-13 UHF : 14-69 Cable TV : 1-125
Picture tube	Microblack Trinitron tube 27-inch picture measured diagonally 28-inch picture tube measured diagonally
Antenna	75-ohm external antenna terminal for VHF/UHF
Input	VIDEO 1, 2 and 3 IN S VIDEO IN (4-pin mini DIN) Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks) : 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance : 47 kilohms
Output	MONITOR OUTPUT S VIDEO OUTPUT (4-pin mini DIN) Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal) 75-ohms

Output
(continued)

Speaker output
(Electrical
characterization)

Video (phono jacks) : 1 Vp-p,
75-ohms unbalanced,
sync negative
Audio (phono jacks): 500 mVrms
(100% modulation)
Impedance : 10 kilohms
AUDIO OUTPUT (VARIABLE)
(phono jacks)
More than 408 mVrms at the maximum
volume setting (variable)
Impedance : 5 kilohms
Main speakers
5W×2 : 8 Ω minimum
Super woofer
20W : 8 Ω minimum
Audio frequency response
Main
180 Hz ~ 20 kHz
Super Woofer
20 Hz ~ 180 Hz
Condition : Bass/Treble are in normal
condition.
Dimensions (without sp)
Approx. 661×563.5×547.5 mm (w/h/d)
Weight Approx. 47.9 kg

To be continued on next page.

TRINITRON® COLOR TV
SONY®



Power requirements	120V AC, 60Hz
Power consumption	225W (Max.) 1.5W (standby)
Accessories supplied	Programmable commander RM-786 with 2 size AA (R6) Batteries (1) Mini commander RM-K1T Speakers and Speaker cords Main speakers (2), Super woofer (1), Speaker cords for main speakers (2) Antenna connector (1)

Optional accessories	U/V mixer EAC-66 Connecting cable VMC-810/820S YC-15V/30V Video rack SU-235X (with super-woofer) SU-335X (with super woofer) SU-251 (black) SU-330 (black)
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Design and specifications are subject to change without notice.


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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

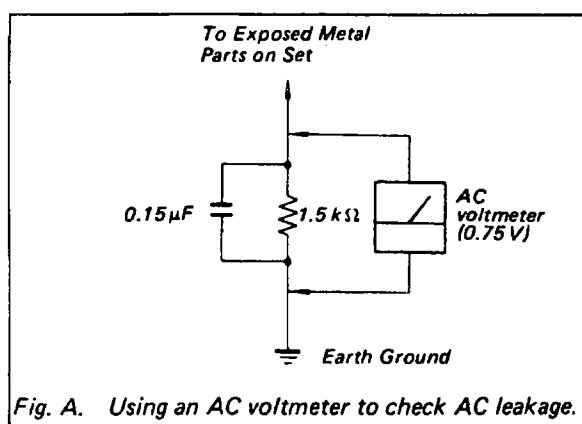
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



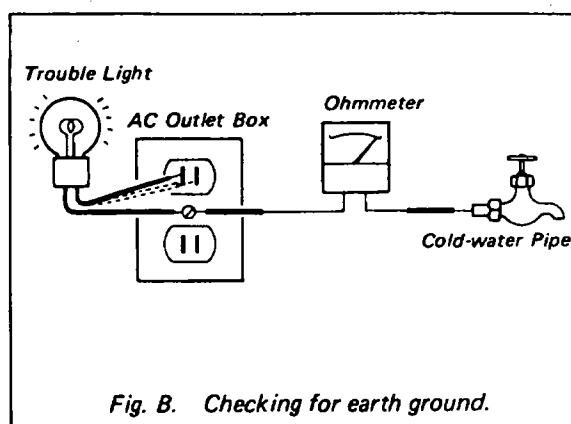
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamps). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

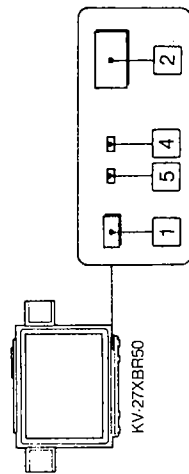
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



SECTION 1 GENERAL

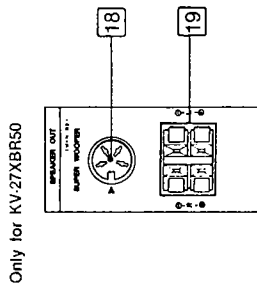
1-1. LOCATION OF CONTROLS

Front

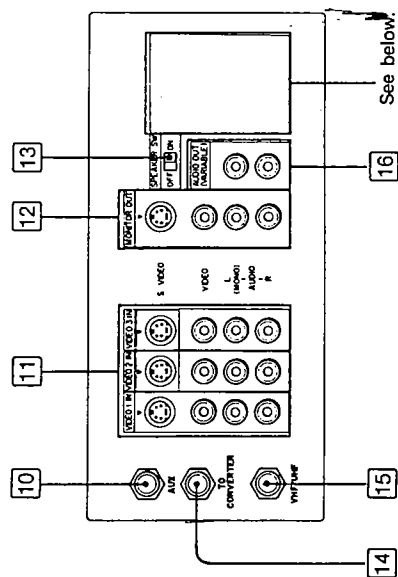


- 1 Remote control detector
 - 2 POWER switch
 - 4 STEREO indicator
 - 5 TIMER indicator
- KV-27XBR50 have only the POWER switch on the TV.

Rear

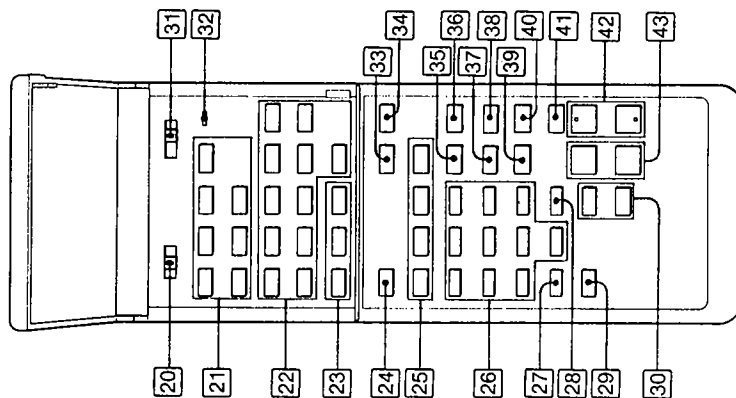


- 18 SUPER WOOFER jack
- 19 SPEAKER OUT terminals (for main speakers)



- 10 AUX (auxiliary) terminal
- 11 VIDEO 1, 2, 3 IN jacks
- 12 MONITOR OUT jacks
- 13 SPEAKER SW (switch)
- 14 TO CONVERTER terminal
- 15 VHF/UHF antenna terminal
- 16 AUDIO OUT (VARIABLE) jacks

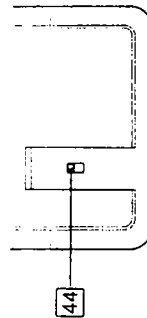
Programmable Commander



- 20 VIDEO/CABLE selector
- 21 AV WINDOW buttons
- 22 Buttons used for Sony video equipment
- 23 Channel presetting buttons
- 24 MUTE button
- 25 Input select buttons*
(TV, VIDEO 1, VIDEO 2, VIDEO 3)
- 26 Channel number buttons
- 27 DISPLAY button
- 28 ENTER button
- 29 TIME button
- 30 PICTURE buttons
- 31 VTR 1/2/3/MDP selector
- 32 LEARN indicator
- 33 SLEEP button
- 34 POWER button*
- 35 CABLE button
- 36 ANT/AUX button
- 37 WOOFER button
- 38 ASC button
- 39 SRS (Sound Retrieval System) button*
- 40 MTS (Multichannel TV Sound) button
- 41 JUMP button
- 42 CH (channel) scan buttons*
- 43 VOL (volume) buttons*
- 44 USE/LEARN selector

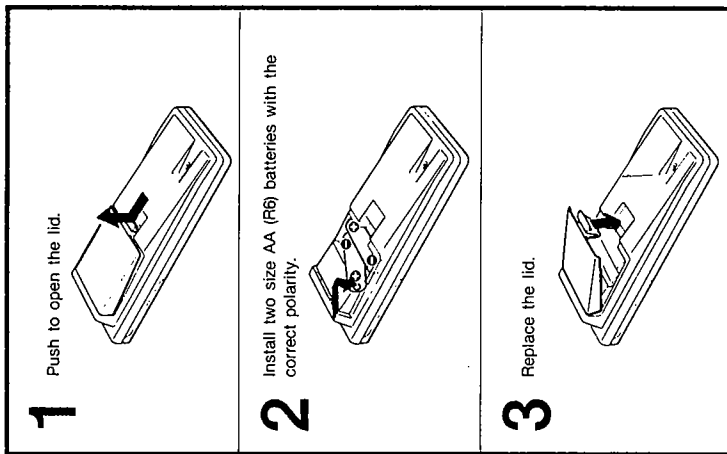
* These buttons are also on the TV.
(Models equipped with picture-in-picture function do not have an SRS button on the TV).

Rear



1-2. PREPARING THE REMOTE COMMANDER

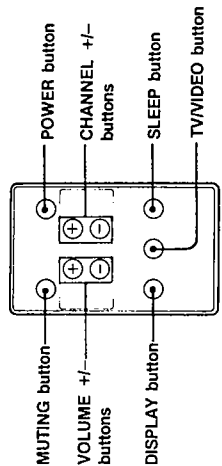
Battery Installation



• In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace all of them with new ones.
• To avoid damage from possible battery leakage, remove the batteries when the Remote Commander will not be used for a long time.

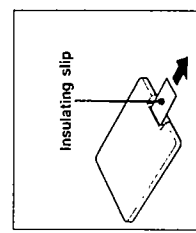
The Mini Commander is supplied only for KV-27XBR50

Mini Commander RM-K1T

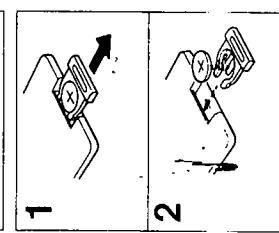


This Mini Commander has the minimum function buttons for watching the TV.

Before use
The initial battery is installed at the factory. Remove the transparent insulating slip before operation.



How to replace the battery
1 Pull out the battery case.
2 Insert a Sony CR2025 battery with the flat surface (positive side) upward.



Use of a battery other than the Sony CR2025 lithium battery may create a risk of fire or explosion.

Notes on the lithium battery

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.
- Replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.

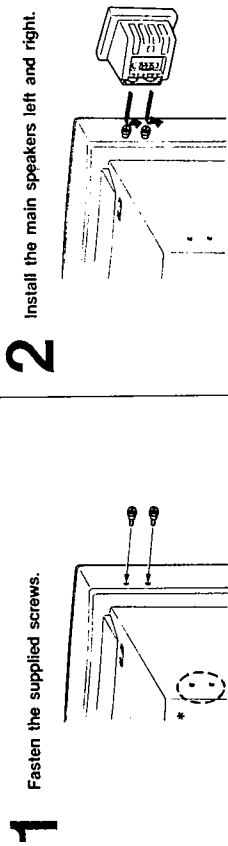
WARNING

Battery may explode if misused. Do not recharge, disassemble or dispose of it in fire.

1-3. INSTALLING THE SPEAKERS

The main speakers and the super woofer are supplied only for KV-27XBR50

Installing the Main Speakers

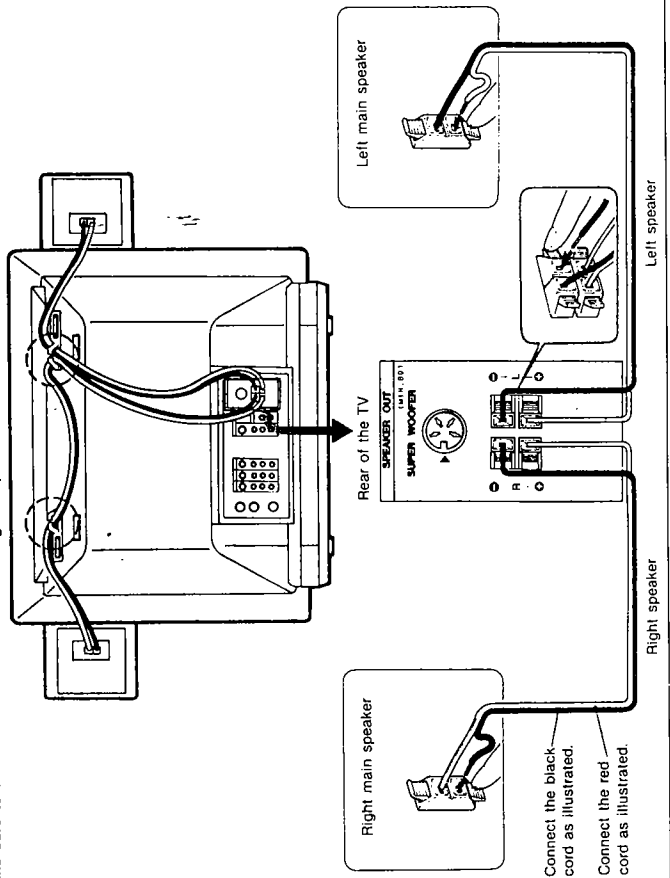


*The main speakers can be attached deep at the rear portion of the TV, too.

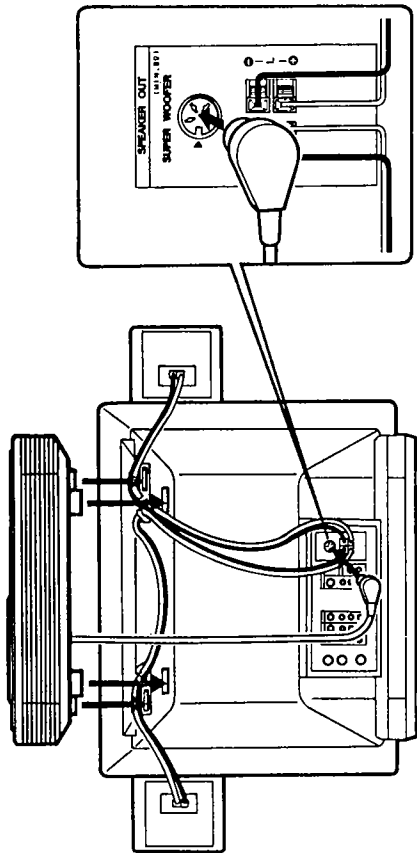
The main speakers can be placed anywhere within the reach of the speaker cords instead of attaching them to the TV. When installing them on the TV, be sure not to place them on the woofer. The speakers are provided with camera screws for installation on a speaker stand, tripod, etc.

Connecting the Main Speakers

Make sure to turn off the TV before connecting the speaker cords.



Connecting the Super Woofer



- 1 Insert the projecting parts at the bottom of the super woofer into the receptacles on the top of the TV.
- 2 Connect the super woofer cord to the SUPER WOOFER jack on the rear of the TV.

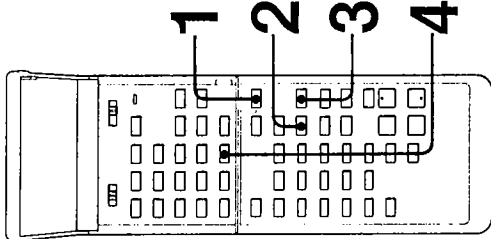
The super woofer is factory-set at the powerful sound. Press WOOFER on the Remote Commander to make bass sound less emphasized.

Notes on the speakers

- Do not carry the TV holding the main speakers.
- The low bass sound is output from the super woofer. Be careful not to block the openings of the super woofer when installing the TV. Otherwise, the low bass sound will not be fully reproduced.
- Be sure to use the supplied speakers, since the TV and the speakers produce sounds as one unit.

1-4. PRESETTING TV CHANNELS

To Preset All Receivable Channels Automatically



- 1** Press **POWER** on the TV or the Remote Commander to turn the TV on.
- 2** Press **CABLE** so that the appropriate mode appears.
- 3** Press **ANT/AUX** according to the channel to be preset.
- 4** Press **AUTO PGM.**

Receivable channels of this TV are:

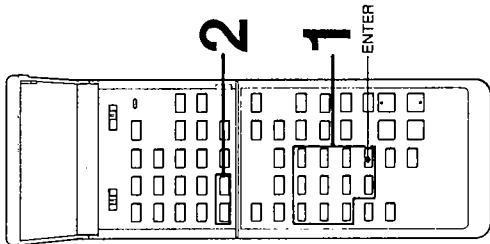
VHF: 2-13
UHF: 14-69
Cable: 1-125

To add the channels that could not be preset with automatic programming because their signal strength was too weak, or to erase unnecessary channels, follow the steps in "To preset only the desired channels" on the next page.

To check preset channels
Press CH +/-.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

To Preset Only the Desired Channel or to Erase Unnecessary Channels



- 1** Press the channel number button(s) and then **ENTER** to select the channel to be added or erased.
- 2** To add channels — Press **ADD**.
- 3** To erase channels — Press **ERASE**.

Repeat steps 1 and 2 for other channels to be added or erased.

When a VHF or UHF channel is erased
The cable TV channel with the same number is also erased and vice versa.

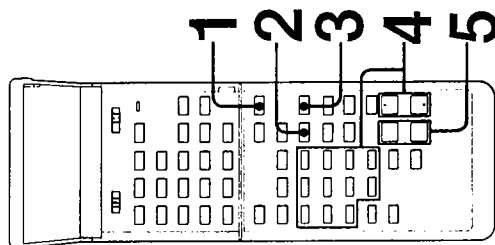
Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	1	5	6	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Corresponding CATV channel	A-8	A-7	A-6	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
31	32	33	34	35	36	37	38	39	93	94	95	96	97	98	99	100	101	102	123	124	125
R	S	T	U	V	W	W+1	W+2	W+3	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64

Check with your local cable TV company for more complete information on the available channels.

*The designation of the cable TV channels conforms to the EIA/NTCA recommendation.

1-5. WATCHING TV PROGRAMS



1 Press **POWER** on the TV or the Remote Commander to turn the TV on.

2 Press **CABLE** so that the appropriate mode appears.

3

To view VHF or UHF channels

C3

To view cable TV channels

3 Press **ANT/AUX** according to the channel to be watched.

3

To view VHF, UHF or regular cable TV channels

AUX 3

To view pay cable TV channels

4 Select a channel in one of the following two ways:

To scan the preset channels in numerical sequence, press CH +/-.

+

0

CH

0

-

To select a channel directly, press the channel number button(s) and then ENTER. (For example, to select channel 10, press 1, 0 and ENTER.)

1	2	3	4	5	6	7	8	9	0	ENTER
---	---	---	---	---	---	---	---	---	---	-------

5 Press **VOL +** or **-** to adjust the volume.

+

VOL

-

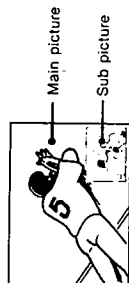
To turn off the TV
Press **POWER** on the TV or the Remote Commander again.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

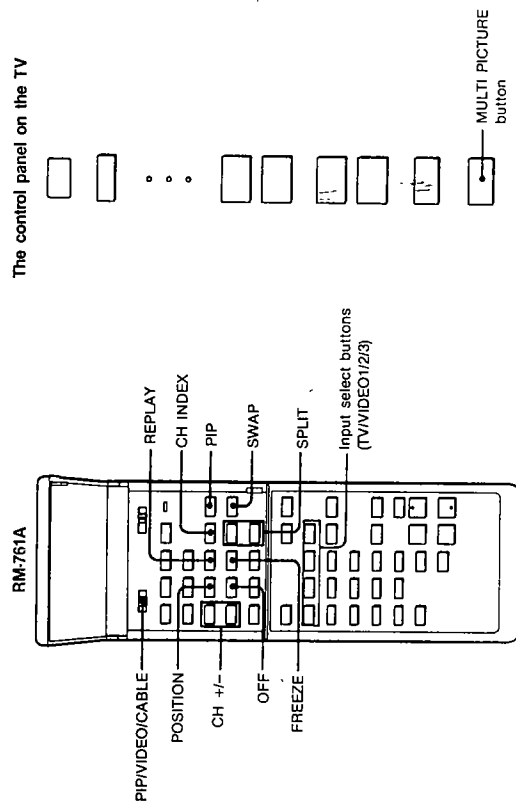
1-6. ENJOYING THE PICTURE-IN-PICTURE FEATURE

Besides the main picture, you can watch another TV channel or a video source simultaneously as a sub picture.

You can enjoy the convenience of the picture-in-picture when there are two TV channels you want to watch at the same time or when you want to monitor VCR dubbing while watching TV, etc.



Buttons used for picture-in-picture operations



Notes

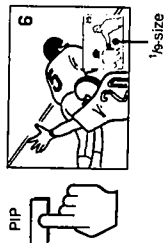
- The channels being received through the AUX terminal cannot be displayed as a sub picture except as a SPLIT picture or a REPLAY picture

- If the main picture is blocked, picture-in-picture does not function.

To display a sub picture

1 Set the PIP/VIDEO/CABLE selector to PIP.

2 Press PIP.



The sub picture in the last mode you watched will appear. Each time PIP is pressed, a 1/4-size or 1/8-size sub picture will appear alternately. Picture-in-picture also functions when the main picture is in the VIDEO mode.

To make the sub picture disappear Press OFF.

To scan programs of a sub picture Press CH +/- in the picture-in-picture section.

Notes on the sub picture

- The sound of the sub picture cannot be heard.
- In the sub picture, the VIDEO LABEL and CHANNEL CAPTION will not appear even if you have set them.
- If a sub picture is blocked, the "B" indication will appear on the sub screen.

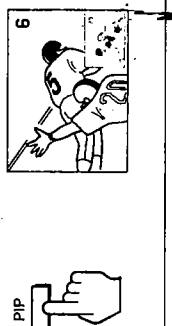
To change the sub picture from the TV to VIDEO mode (or vice versa) Press SWAP so that the sub picture becomes the main picture. Press the input select button (TV/VIDEO 1/2/3) to change the mode.

To swap the main and the sub pictures

1 Set PIP/VIDEO/CABLE selector to PIP.

2 Press PIP to display a sub picture.

3 Press SWAP.



To change the position of the sub picture

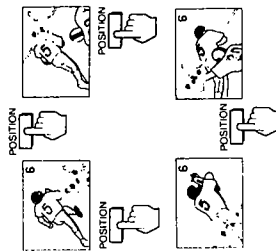
1 Set the PIP/VIDEO/CABLE selector to PIP.



2 Press PIP to display a sub picture.

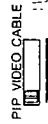


3 Press POSITION.
Each time POSITION is pressed, the sub picture will move as illustrated.

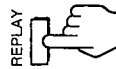
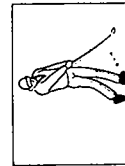


To replay the main picture displayed 2 seconds before in the sub picture

1 Set the PIP/VIDEO/CABLE selector to PIP.



2 Press REPLAY.



To make the replay picture disappear, press OFF.

Note
The replay picture is always displayed in 1/9 size.

To freeze a TV picture

1 Set the PIP/VIDEO/CABLE selector to PIP.



2 Press FREEZE.
The TV picture will be frozen.
Freezing the picture is convenient when you want to write down a recipe of a cooking program or a displayed toll free number, etc.



Note
Since the broadcast continues normally while the still picture is on the screen, you will miss a part of the program.

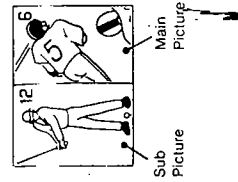
To restore the normal picture, press OFF.

To split the screen with the main and the sub pictures

1 Set the PIP/VIDEO/CABLE selector to PIP.



2 Press SPLIT.
Be sure to press these two buttons simultaneously.



To make the sub picture disappear
Press OFF.

Notes

- Only the sound of the main picture (right screen) is heard.
- When using the split-screen feature, vertical lines may appear to you to be elongated.
- To swap the main and the sub pictures in the split screen, press SWAP.

To display seven different sub pictures simultaneously

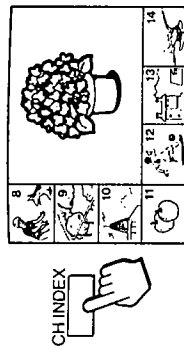
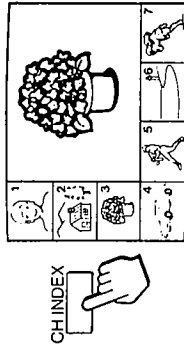
1

Set the PIP/VIDEO/CABLE selector to PIP.



2

Press CH INDEX.



Programs of seven TV channels appear in numerical sequence as sub pictures.
Each time CH INDEX is pressed, the next seven channels will appear.

To cancel CH INDEX, press OFF.

Note

When using the CH INDEX function, part of the main picture is hidden by the sub picture.

To demonstrate all the picture-in-picture features one by one

1

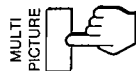
Set the PIP/VIDEO/CABLE selector to PIP.



2

Press MULTI PICTURE on the TV.

The features will be demonstrated as follows:



REPLAY

P-in-P

POSITION

SWAP

OFF

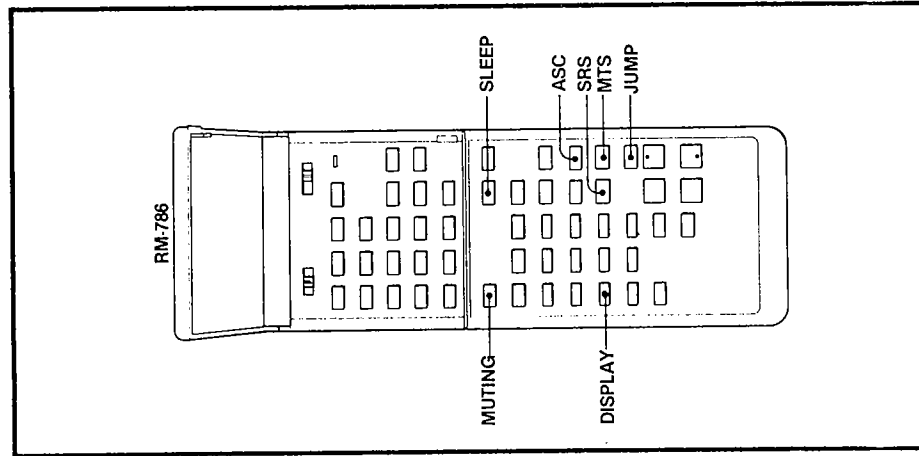
FREEZE

CH/INDEX

SPLIT

To cancel the demonstration, press OFF.

1-7. ENJOYING CONVENIENT FEATURES



Muting the sound

Press MUTING.

The "MUTING" indication will appear on the screen. To restore the sound, press MUTING again or VOL +.

Keeping the channel displayed

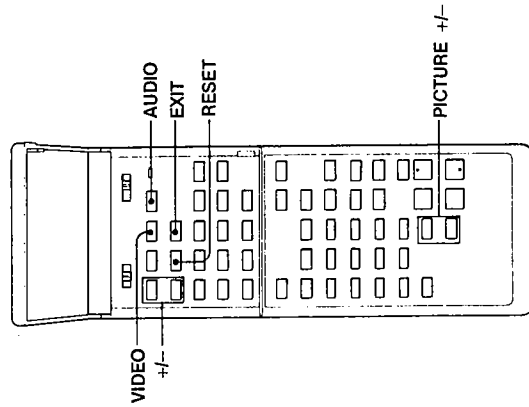
Press DISPLAY.

To make the channel display disappear, press DISPLAY again.

1-8. ADJUSTING THE PICTURE AND SOUND

You can adjust the picture and sound levels and have the unit store them for each input mode (TV/VIDEO 1/2/3).

Buttons used for adjustment



For operation, see the next pages.

Using the SLEEP timer

Press SLEEP.

The TV will be turned off automatically after about 1 hour. The "SLEEP" indication will appear on the screen for a few seconds and the SLEEP indicator on the TV will remain lit until the TV is turned off. To cancel the SLEEP timer, press SLEEP again so that the SLEEP indicator goes out, or turn off the TV.

the green "SLEEP ON"

indication will appear on the screen for three seconds when the SLEEP button is pressed. And the red "SLEEP" indication will appear one minute before the TV is turned off automatically. When the SLEEP button is pressed again, the "SLEEP OFF" indication will appear three seconds before the SLEEP timer is canceled.

Getting the most vivid picture

Press ASC.

The "ASC ON" indication with the rotating mark (⊕) will appear on the left bottom of the screen for a few seconds to let you know the ASC is activated. The ASC continually adjusts sharpness, brightness, color and picture settings for optimum picture quality. The ASC automatically reduces noise when the signal is weak (in weak electric field).

To cancel the ASC, press ASC again. The "ASC OFF" indication will appear on the screen.

For more natural sound reproduction

Press SRS (sound retrieval system).

The "SRS" indication will appear on the screen.

To cancel SRS, press SRS again.

For KV-27XBR50/32XBR50, each time SRS is pressed, SRS (STEREO), SRS (MONO) or SRS OFF is selected in sequence. On the SRS (MONO) mode the natural sound of a monaural source can be also enhanced.

Receiving a Multichannel TV Sound program

Each time MTS is pressed, MAIN, SAP (Second Audio Program), or MONO is selected in sequence.

To listen to stereo sound, select the MAIN mode so that the on-screen MAIN indication appears. The STEREO indicator on the TV lights up whenever a stereo broadcast is received.

There may be cases of stereo broadcasts where excessive noise will be heard due to a weak incoming signal. You may be able to eliminate this noise by selecting the MONO mode.

Switching quickly between two channels

Press JUMP.

Each time JUMP is pressed, the channel which appeared on the screen directly before is recalled. This button enables you to keep track of two programs alternately. JUMP also switches programs in the ANT/AUX mode.

HUE

VIDEO

Skin tones become greenish

Skin tones become purplish

COLOR

VIDEO

To increase color intensity

To decrease color intensity

BRIGHT (brightness)

VIDEO

Brighter

Darker

SHARP (sharpness)

VIDEO

Sharper

Softer

NOTCH

VIDEO

NOTCH OFF

NOTCH ON

NOTCH OFF

To set NOTCH filter ON.

To set NOTCH filter OFF.

NR (Noise Reduction)

VIDEO

To reduce picture noise.

To set Noise Reduction OFF

TRINITONE*

For bright white

For soft white

TRINITONE HIGH

TRINITONE LOW

TRINITONE HIGH

TRINITONE LOW

TRINITONE HIGH

The factory preset whiteness level will be restored.

TRINITONE LOW

A touch of red will be added to the white part of the picture.

To adjust picture contrast

Press to increase picture contrast with vivid color.

Press to decrease picture contrast with soft color.

The picture contrast level cannot be memorized under each input mode.

To restore the normal picture, press EXIT.

To clear the adjustment levels and restore the factory preset levels at once, press RESET.

For models with the picture-in-picture function:

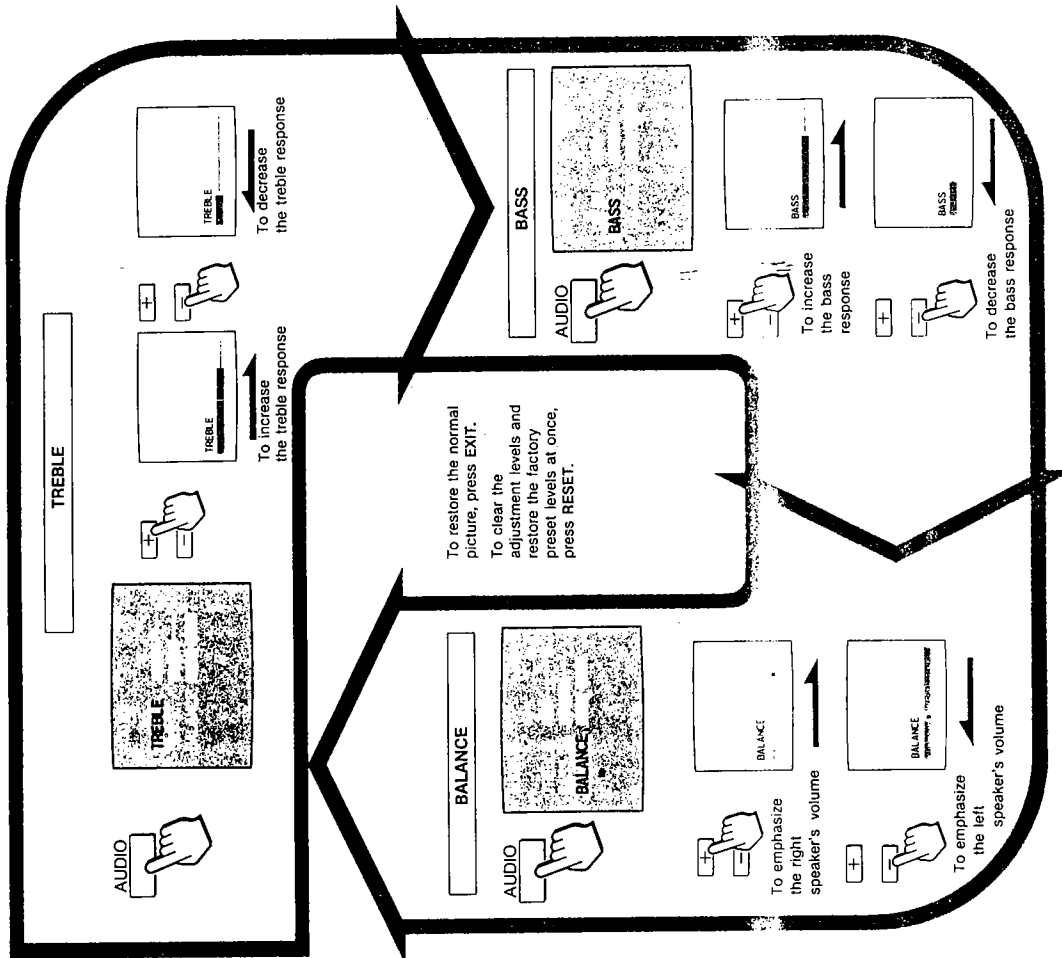
- The HUE and COLOR adjustment are not operable when the picture is frozen.
- The SHARPNESS control is not operable for a sub picture.

*** TRINITONE adjustment**

Usually color picture tubes are manufactured with a fixed color temperature (tint) that determines the "warmness (reddish)" or "coolness (bluish)" of the picture it produces. With Sony's Trinitone feature, you can adjust the color temperature of the picture to your preference.

Adjusting the Sound

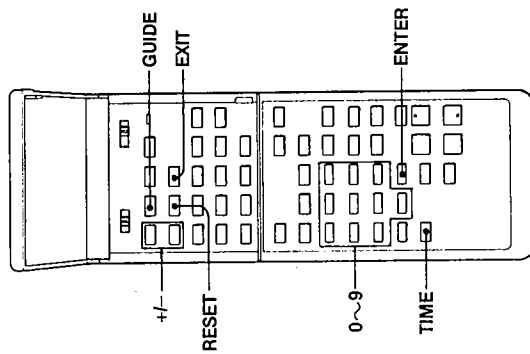
Press AUDIO repeatedly until the on-screen display of the item to be adjusted appears.



1-9. USING THE GUIDE FUNCTION

The GUIDE function calls up the on-screen menu and instructions on how to set the current time, timer, channel block, video label, and channel caption.



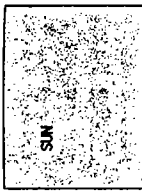

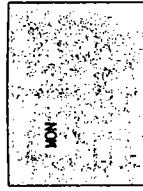

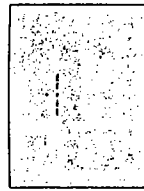
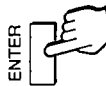
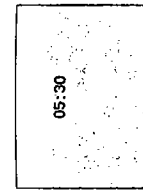
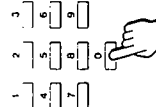
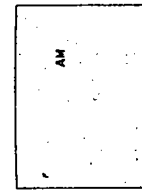
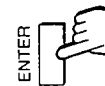
Buttons used for the GUIDE function



- All settings will be erased from the unit's memory if the unit is unplugged, or if a power failure occurs.
- The ON/OFF TIMER and CHANNEL BLOCK will operate only if the clock is set correctly.

Setting the Clock

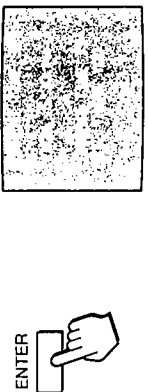
Example: To set the clock to 5:30 PM, Monday.

<p>1 Press GUIDE. Press repeatedly until "CURRENT TIME SET" turns red.</p>  	<p>2 Press ENTER.</p>  	<p>3 Press +/- until the desired day of the week appears.</p>  	<p>4 Press ENTER. If the time is already set, the current set time will appear. To clear these numbers, press any number.</p>  	<p>5 Press 0-9 to set the desired time. (For 5:30, press 0, 5, 3, 0)</p>  	<p>6 Press ENTER.</p>  
--	---	--	---	---	---

7 Press +/- to set AM or PM.



8 Press **ENTER**.
The moment **ENTER** is pressed, the clock will start.
Now, the clock is set. The indication will disappear after approx. 5 seconds.



To restore the normal picture
Press **EXIT**.

To clear the current time setting
Display the "CURRENT TIME SET" page and press **RESET**, then **EXIT**.

To reset the setting
Display the "CURRENT TIME SET" page and press **RESET**, then repeat steps 3 to 8.

To display the current time
Press **TIME**.



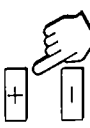
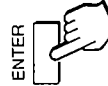
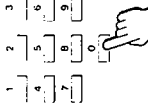

Note
The internal clock of this TV operates on a 12-hour cycle. If a 24-hour cycle number is entered, it will be cleared when **ENTER** is pressed.

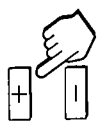



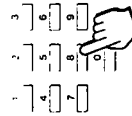

12:00 AM stands for midnight.
12:00 PM stands for noon.

Setting the ON/OFF Timer

ON/OFF TIMER allows the program of your choice to appear on the screen at the desired time.

Example: Set the timer to turn on the TV to channel 8 at 1:00 PM for 3 hours every Monday through Friday.

<p>1 Press GUIDE. Press repeatedly until "ON/OFF TIMER" turns red.</p>	 <p>ON/OFF TIMER</p>
<p>2 Press ENTER. If the clock has not been set, "PLEASE SET CURRENT TIME FIRST" appears on the screen. Go back to page 34.</p>	 <p>EVERY SUN-SAT</p>
<p>3 Press +/- until the desired day of the week appears.</p>	 <p>EVERY MON-FRI</p>
<p>4 Press ENTER.</p>	 <p>---</p>
<p>5 Press 0-9 to set the desired time. (For 1:00, press 0, 1, 0, 0.)</p>	 <p>01:00</p>
<p>6 Press ENTER.</p>	 <p>AM</p>

<p>7 Press +/- to set AM or PM.</p>	 <p>PM</p>
<p>8 Press ENTER.</p>	
<p>9 Press a number button to set the duration. (Up to 9 hours can be set).</p>	 <p>3</p>
<p>10 Press ENTER.</p>	
<p>11 Press 0-9 to set the desired channel number.</p>	 <p>8</p>
<p>12 Press ENTER. Now the ON/OFF timer is set. The TIMER indicator on the TV lights up.</p>	

Setting the Channel Block

To restore the normal picture
Press EXIT.

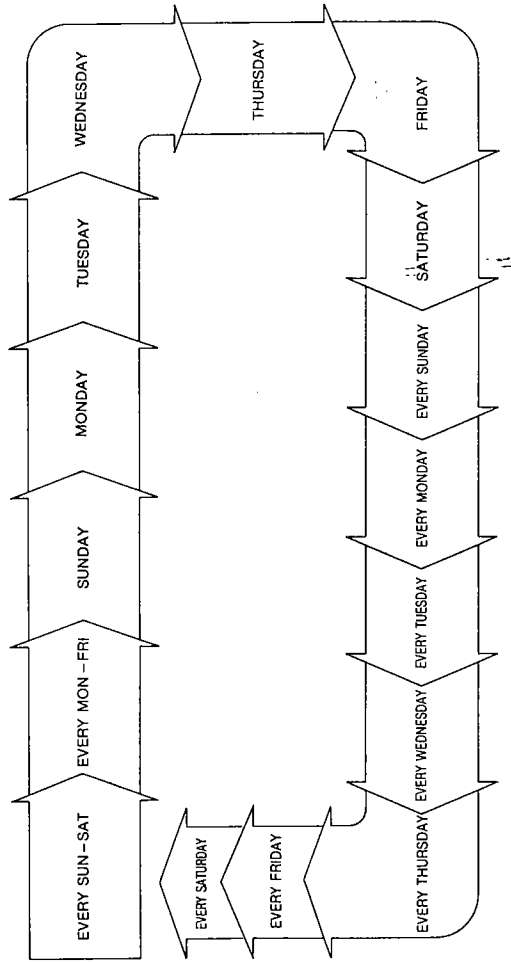
To clear the setting
Display the "ON/OFF TIMER" page and press RESET,
then EXIT.

To reset the setting
Display the "ON/OFF TIMER" page and press RESET,
then repeat steps 3 to 12.

The indication "TIMER WILL BE OFF" will appear one
minute before the timer goes off.

Note

The selectable days will appear when you press [+] in
the following order:



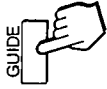
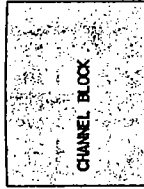
Press [-] for reverse direction.

CHANNEL BLOCK prevents a channel from appearing on
the screen for preset hours. We suggest you use this
function to prevent children from watching undesirable
programs.

Example: Set the CHANNEL BLOCK at 4:00 PM (for 1 hour), every Saturday, at channel 12

1

Press GUIDE.
Press repeatedly until "CHANNEL BLOCK"
turns red.



Step 2-11: Same as Setting the ON/OFF Timer.

12

Press ENTER.
Now CHANNEL BLOCK is set.
At the preset time, the picture of the selected
channel will be blocked from view and the
sound will be muted. A red "BLOCKED"
indication will appear on the screen while the
channel is blocked.



To restore the normal picture
Press EXIT.






To clear the setting
Display the "CHANNEL BLOCK" page and press RESET,
then EXIT.


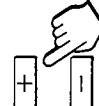

To reset the setting
Display the "CHANNEL BLOCK" page and repeat the steps
from the beginning.

Labeling Each Video Input Mode

Each video input mode can be labeled as VTR, S VIDEO, or LD so that you can easily identify what equipment is connected to which input terminal. When the label is entered, this TV automatically adjusts itself internally to enhance the picture quality for the labeled equipment.

Example: Label VIDEO 1 with S VIDEO, VIDEO 2 with LD, and VIDEO 3 with VTR.

1	<p>Press GUIDE. Press repeatedly until "VIDEO LABEL" turns red.</p>	 VIDEO LABEL
2	<p>Press ENTER.</p>	 VIDEO 1: VIDEO 1
3	<p>Press +/- until the desired label appears.</p>	 VIDEO 1: S VIDEO
4	<p>Press ENTER.</p>	 VIDEO 2: VIDEO 2
5	<p>Press +/- until the desired label appears.</p>	 VIDEO 2: LD

6	<p>Press ENTER.</p>	 VIDEO 3: VIDEO 3
7	<p>Press +/- until the desired label appears.</p>	 VIDEO 3: VTR
8	<p>Press ENTER. Now, VIDEO LABEL is set.</p>	


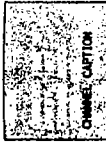

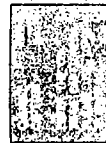
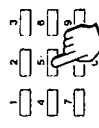
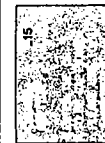


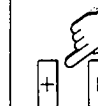
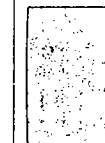

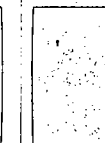
To restore the normal picture
Press **EXIT**.

For the models with only one S VIDEO IN jack
The "S VIDEO" label cannot be entered for VIDEO 2 and 3.

Captioning the TV Stations

You can give a station name to up to 32 program positions to identify the received channel for display on the screen together with the program position number, using up to four characters.

Example: To name program position 15 "ABC".

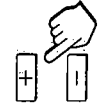


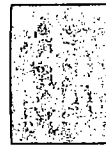
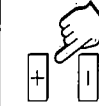
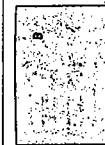


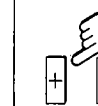


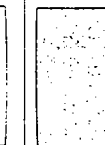
1	Press GUIDE. Press repeatedly until "CHANNEL CAPTION" turns red.	 
2	Press ENTER.	 
3	Press 0-9 to set the channel to be captioned. (For 15, press 1, then 5.)	 
4	Press ENTER. If the caption is already set, the letters/numbers will appear.	 
5	Press +/- until the desired letter or number appears. You can leave the underline to make a column blank.	 
6	Press ENTER.	 

To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL CAPTION" page and press RESET, then EXIT.

To reset the setting
Display the "CHANNEL CAPTION" page and press RESET, then repeat steps 3 to 12.

Note
When the memory is full, the indication "MEMORY FULL. PLEASE REFER TO MANUAL." will appear. In this case, clear the unnecessary setting.

7	Press +/- until the desired letter or number appears.	 
8	Press ENTER.	 
9	Press +/- until the desired letter or number appears.	 
10	Press ENTER.	 
11	Press +/- until the desired letter or number appears.	 
12	Press ENTER. Now the CHANNEL CAPTION is set. If you want to name more stations, press [+] and repeat steps 3 to 12.	 

Four blank spaces can be memorized as one caption. To check if the blanks are captioned, press DISPLAY and check the channel display as follows:

No caption

15
MAIN

Blank caption

15
MAIN

1-10. USING THE PROGRAMMABLE REMOTE COMMANDER

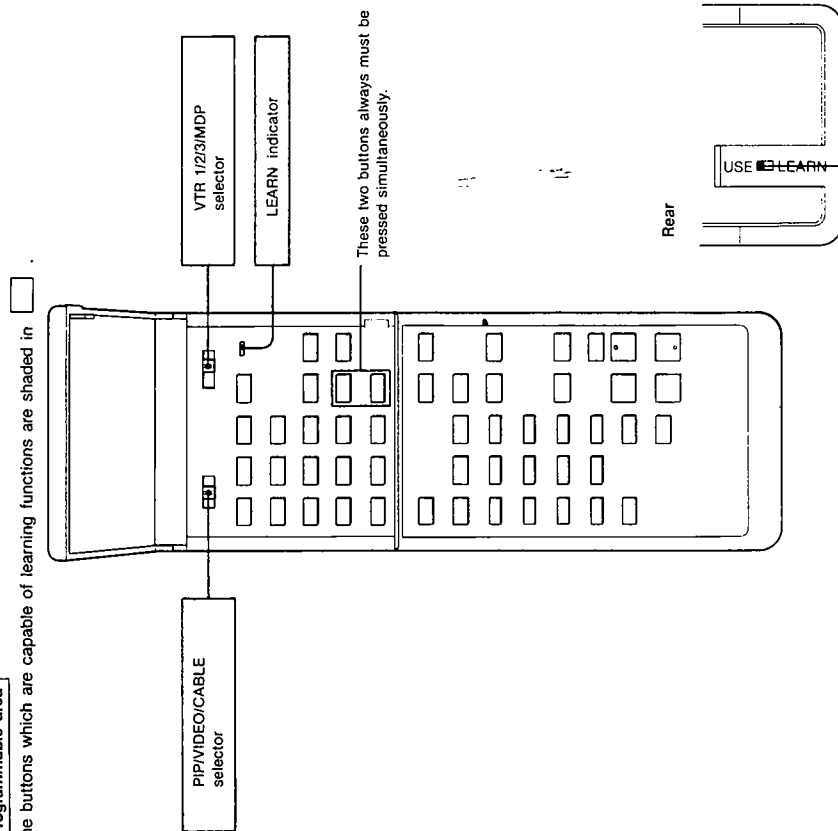
The supplied RM-761A/762A/786 Remote Commander allows you to operate other Sony video equipment having an infrared remote control detector. Furthermore, it can "read" and "store" the functions of another Remote

Commanders made by Sony and other manufacturers which use an infrared beam. Thanks to this "learning" ability, you can operate your home audio and video equipment with only one Remote Commander.

Parts Used for Learning Function

Programmable area

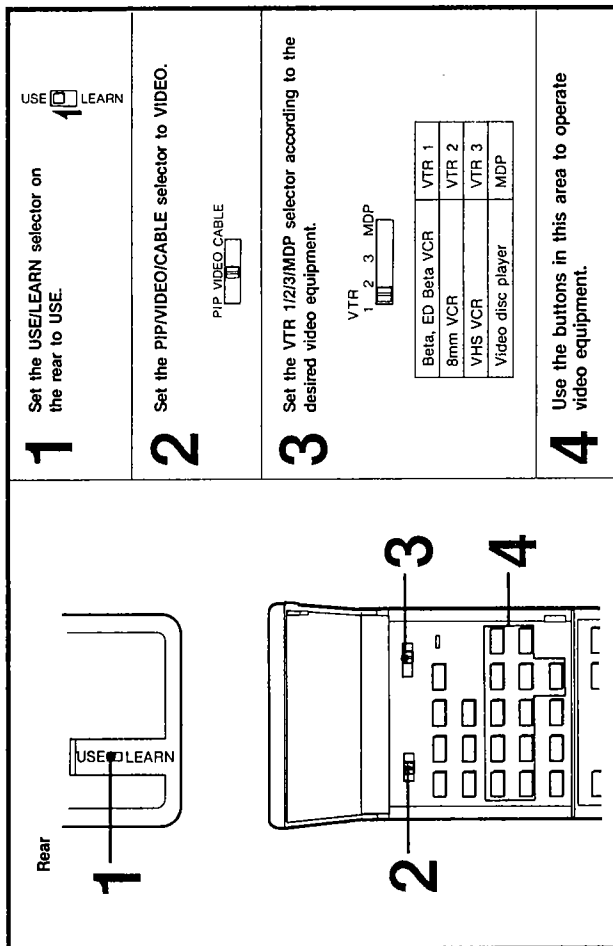
The buttons which are capable of learning functions are shaded in



Normally, set to USE. When having the Remote Commander memorize the functions, set to LEARN.

Operating Sony Video Equipment

The supplied Remote Commander allows you to operate Sony video cassette recorders (including Beta, 8mm, VHS), and video disc players (including multi disc player). For operating video equipment manufactured by Sony, "learning" is unnecessary.



Operating Video Equipment

To record Press ●
To start playback Press ▲
To stop Press ■
To advance the tape rapidly Press ►►
To rewind the tape Press ◄◄
To freeze a picture Press II.

To resume normal playback, press again.
To view the picture at a fast speed to find a particular scene Keep pressing ►► or ◄◄ during playback. To resume normal playback, release the button.

To start playback Press ►
To stop Press ■
To freeze a picture Press II.
To resume normal playback, press again.
* This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the unit will go into the standby mode if II is pressed.

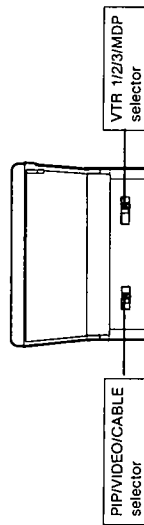
To view the picture at a fast speed to find a particular scene Keep pressing ►► or ◄◄ during playback. To resume normal playback, release the button.

* If the equipment does not have a certain function, the corresponding button on this Remote Commander is not effective.

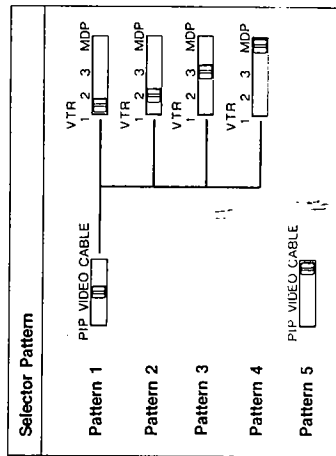
Operating Audio and Video Equipment of Other Manufacturers, or Sony Audio Equipment

Within the programmable area, any button can memorize the function of the Remote Commander supplied with Sony audio and other manufacturer's equipment. Up to 5 functions can be memorized per button.

Programmable area



Up to five functions can be memorized on a button by setting the selectors as follows:



For patterns 1-4, setting both selectors is necessary.

For your convenience:

- Set the selector to the position which is not used for your Sony video equipment.
- Memorize the new function on the button which has the same kind of function.
(e.g. Stop function → button, playback function → button)

How to Use the Learning Function

- Set the PIP/VIDEO/CABLE selector and VTR 1/2/3/MDP selector to the appropriate position.
- Set the USE/LEARN selector to LEARN.
- Position this Remote Commander and the other Remote Commander head to head, approximately 2 inches (5 cm) apart.
- Momentarily press the button of this Remote Commander on which a function is to be memorized.
The LEARN indicator lights up.
Now it's ready for learning.

Note
If you press a button which is not programmable, the Remote Commander will beep 8 times repeatedly.
- Keep pressing the function button of the other Remote Commander until the LEARN indicator goes out. A long beep is also heard which confirms that the learning was successfully completed.
- To continue learning other functions, repeat steps 4 to 5.
- After learning is finished, set the USE/LEARN selector to USE.

For accurate learning
Do not move the Remote Commanders during the learning process.

For your convenience

We have provided a label with a summary of instructions on how to use the Remote Commander which you can stick on the back of the Remote Commander.

Caution

When replacing the batteries, do it within approximately 30 minutes. Otherwise, the memorized functions may be erased.

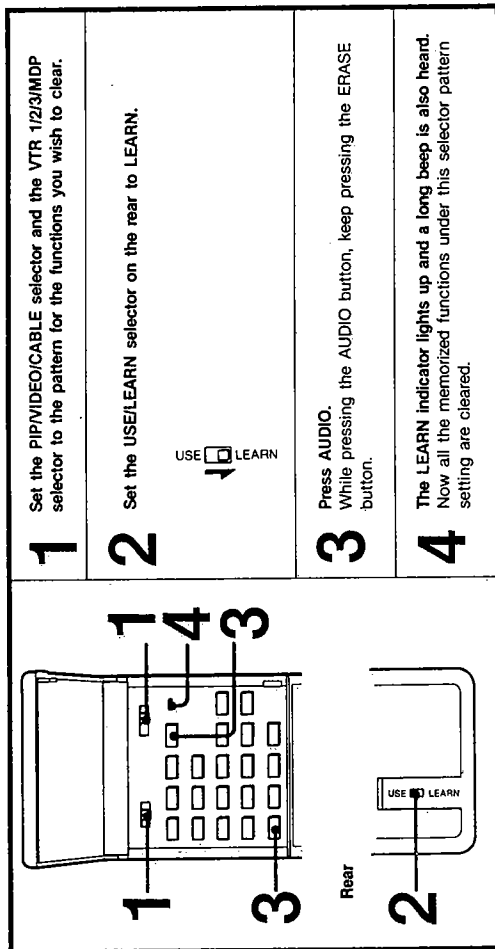
Notes

- The Remote Commander beeps repeatedly if there is inappropriate operation. Try again from Step 4.
- Be sure to confirm that the functions have been memorized as a few commanders of other manufacturers are not storable on this Remote Commander.
- Do not use the learning function for equipment other than video and audio.
- When operating equipment with learned functions, the selectors should be set to the same position as they were when the functions were memorized.
- When a new function is assigned to a button, the previous function is cleared automatically.
- When the memories are full, the LEARN indicator lights steadily if you try to memorize a new function. In such a case, set the USE/LEARN selector to USE to turn the indicator off, then clear the unnecessary functions

The learning function will not work in the following cases:

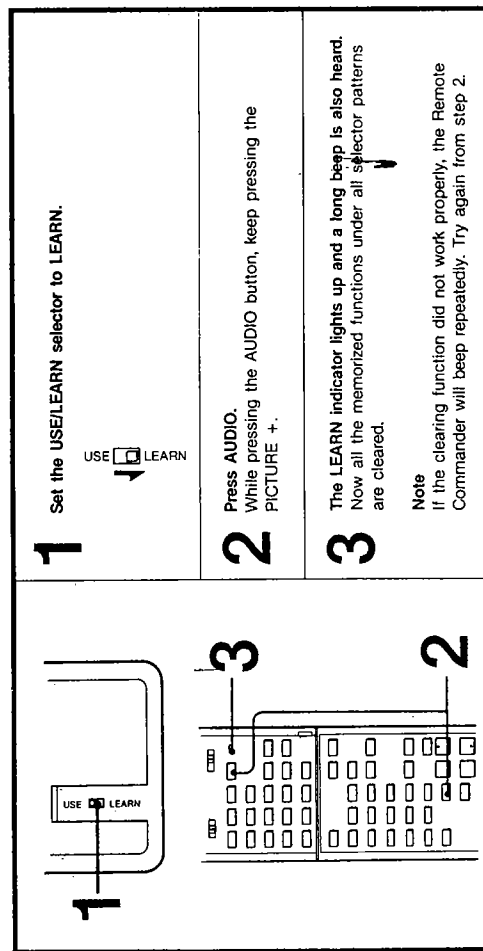
- There is a fluorescent lamp or equipment which emits infrared energy.
→ Move the Remote Commanders away from such infrared sources.
- The batteries are exhausted.
→ Replace all the batteries with new ones.
- There is an obstacle between the Remote Commanders, or the Remote Commanders are not positioned head to head and exactly aligned.
→ Position the Remote Commanders properly.

Clearing Memorized Functions — Clearing memorized functions under a particular selector pattern



- 1 Set the PIP/VIDEO/CABLE selector and the VTR 1/2/3/MDP selector to the pattern for the functions you wish to clear.
- 2 Set the USE/LEARN selector on the rear to LEARN.
- 3 Press AUDIO. While pressing the AUDIO button, keep pressing the ERASE button.
- 4 The LEARN indicator lights up and a long beep is also heard. Now all the memorized functions under this selector pattern setting are cleared.

Clearing All the Memorized Functions



- 1 Set the USE/LEARN selector to LEARN.
- 2 Press AUDIO. While pressing the AUDIO button, keep pressing the PICTURE +.
- 3 The LEARN indicator lights up and a long beep is also heard. Now all the memorized functions under all selector patterns are cleared.

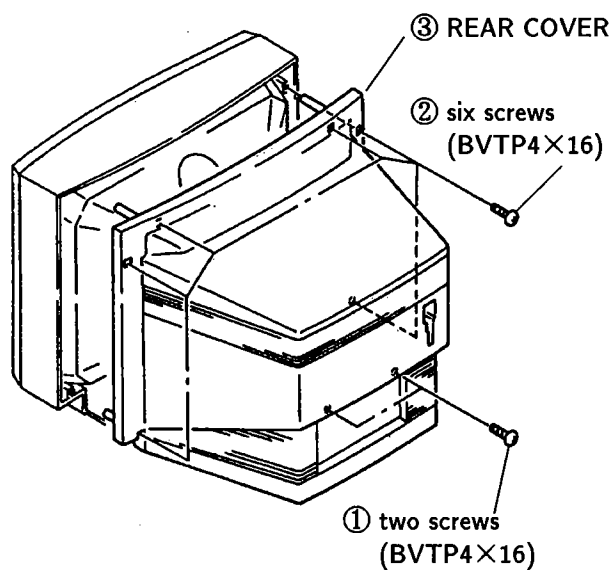
Note
If the clearing function did not work properly, the Remote Commander will beep repeatedly. Try again from step 2.

Note

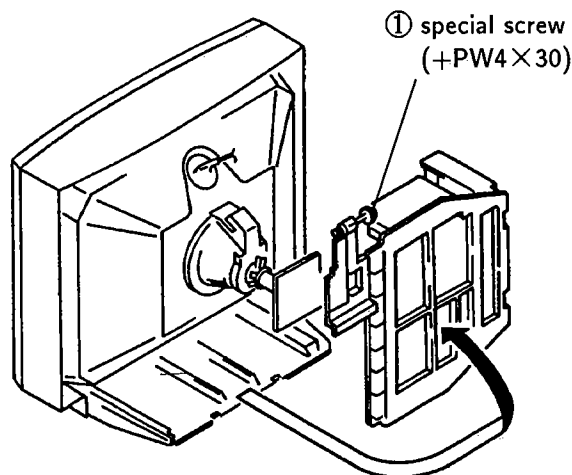
Even if the memorized functions are cleared, the buttons maintain their factory set memory.

SECTION 2 DISASSEMBLY

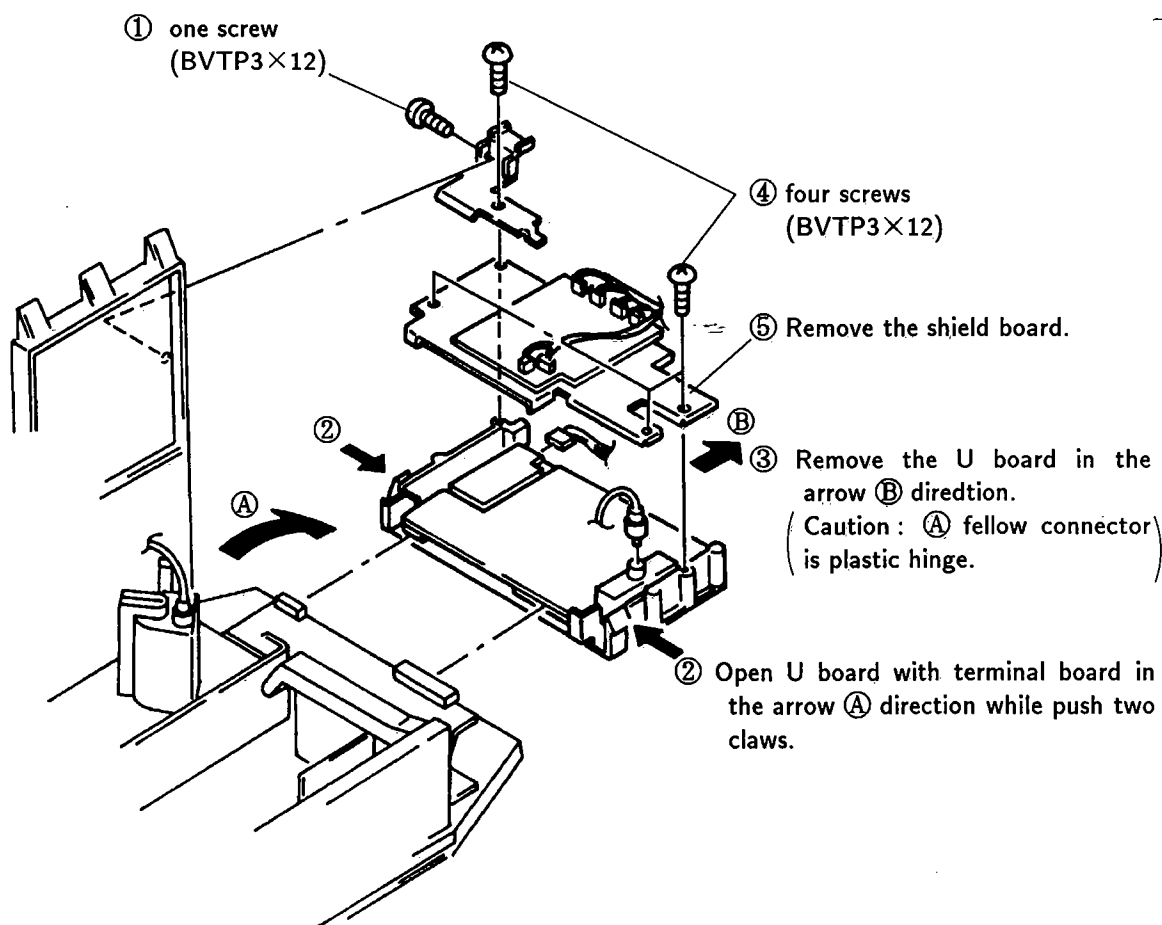
2-1. REAR COVER REMOVAL



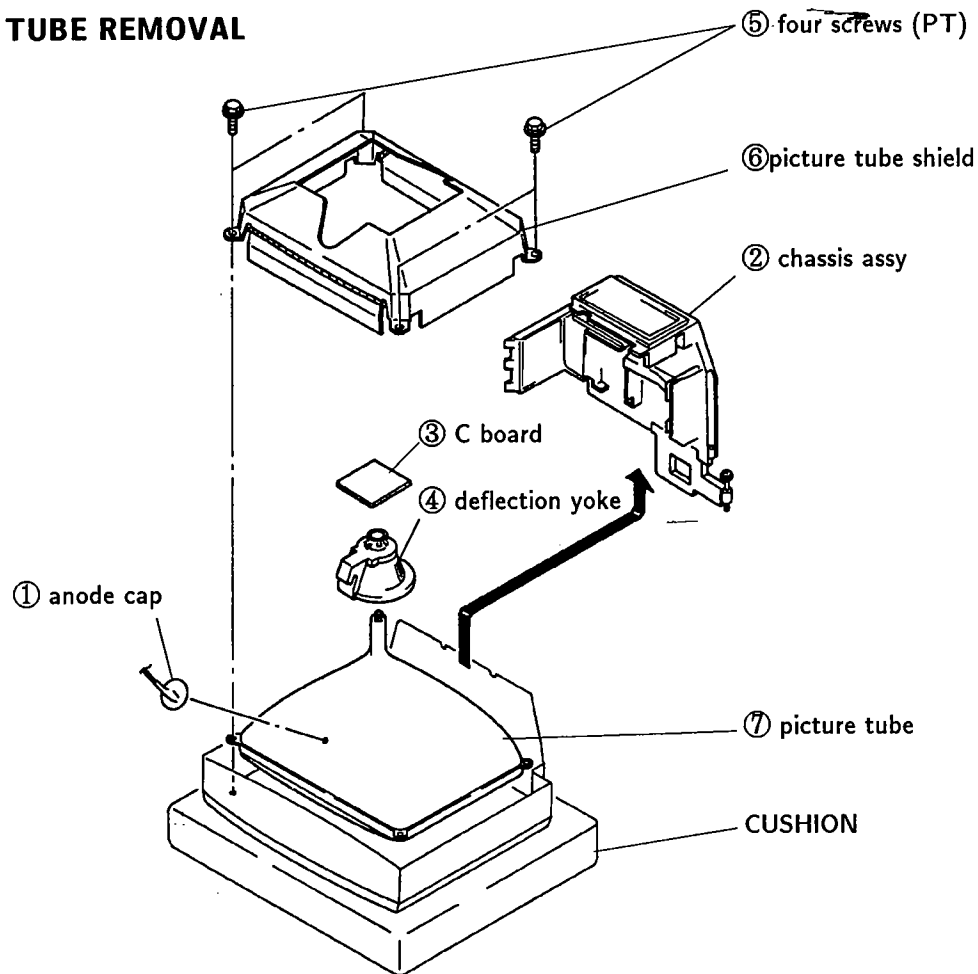
2-2. SERVICE POSITION



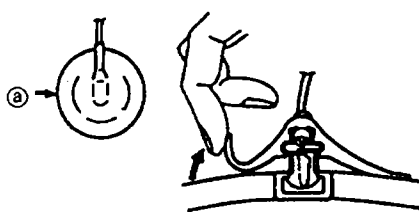
2-3. U BOARD REMOVAL



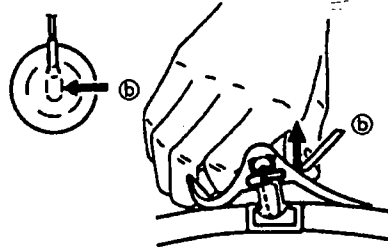
2-4. PICTURE TUBE REMOVAL



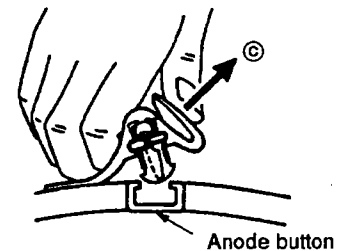
• REMOVAL OF ANODE-CAP • REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



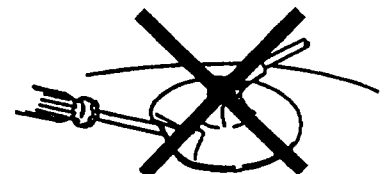
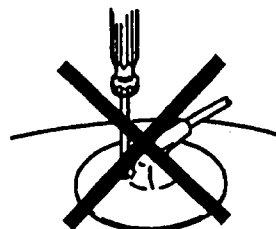
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ③.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ④.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control 80%

BRIGHTNESS control RESET position

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note: Test Equipment Required.

1. Color-bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2.
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the disk magnets. (Fig.4)

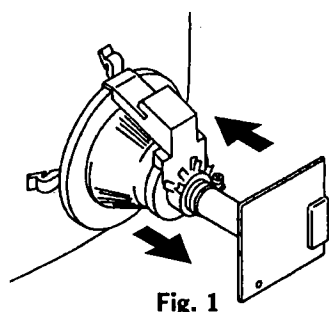
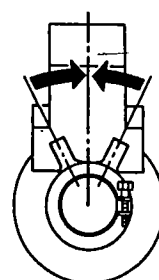


Fig. 1



purity control

Fig. 2

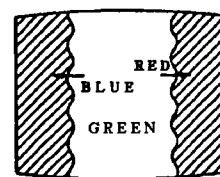


Fig. 3

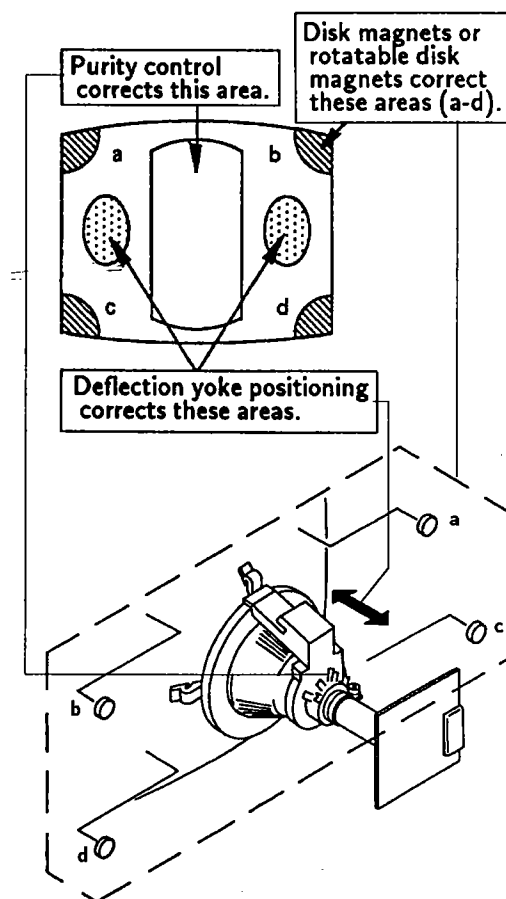


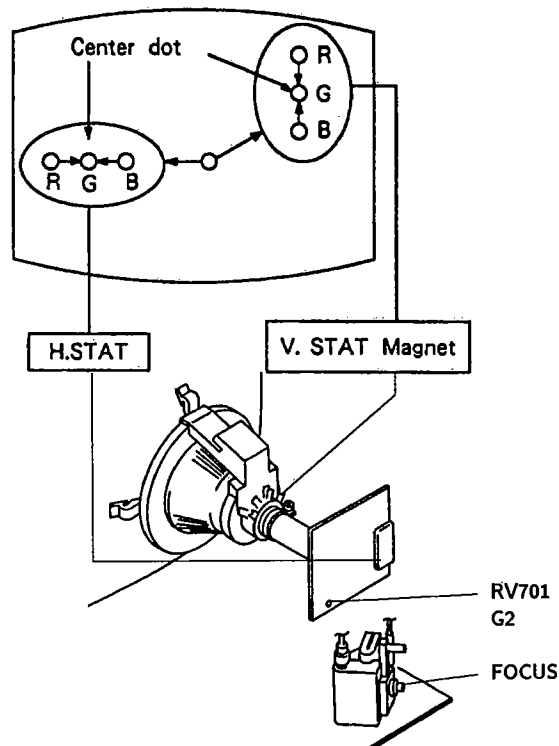
Fig. 4

3-2. CONVERGENCE

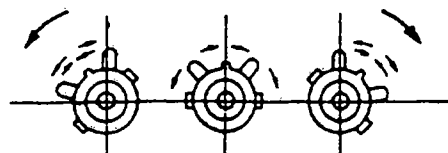
Preparation

- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

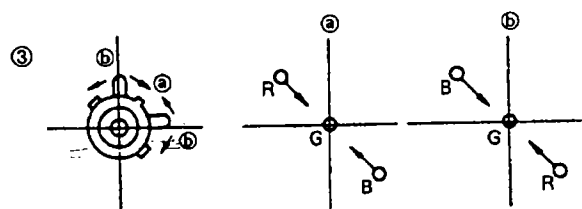
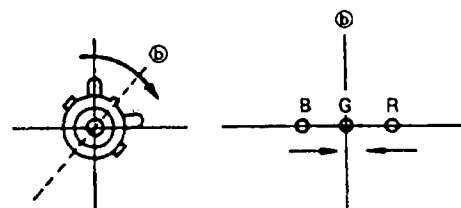
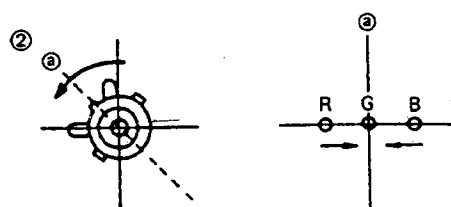
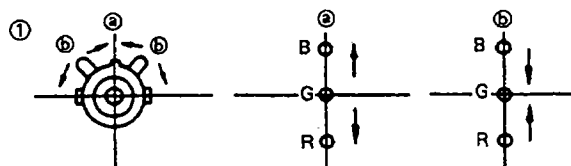
(1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
 2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
 3. If the red, green and blue dots do not converge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

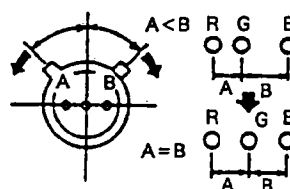


If the blue dot do not converge with red and green dots, perform following steps.

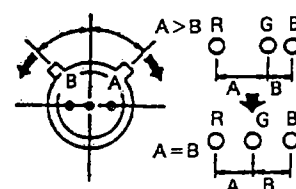
- HMC and VMC correction for BMC (Hexapole) Magnet

1. HMC (Horizontal Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

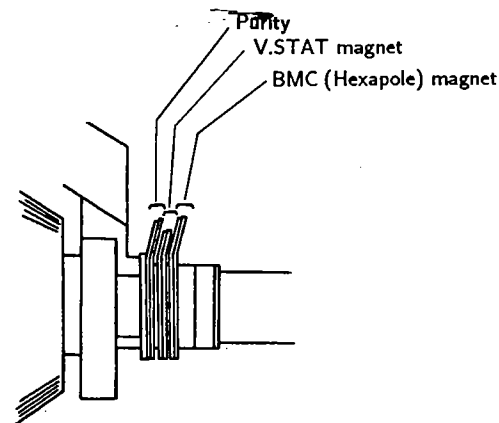
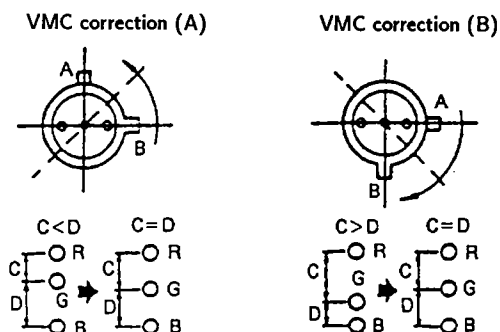
HMC correction (A)



HMC correction (B)



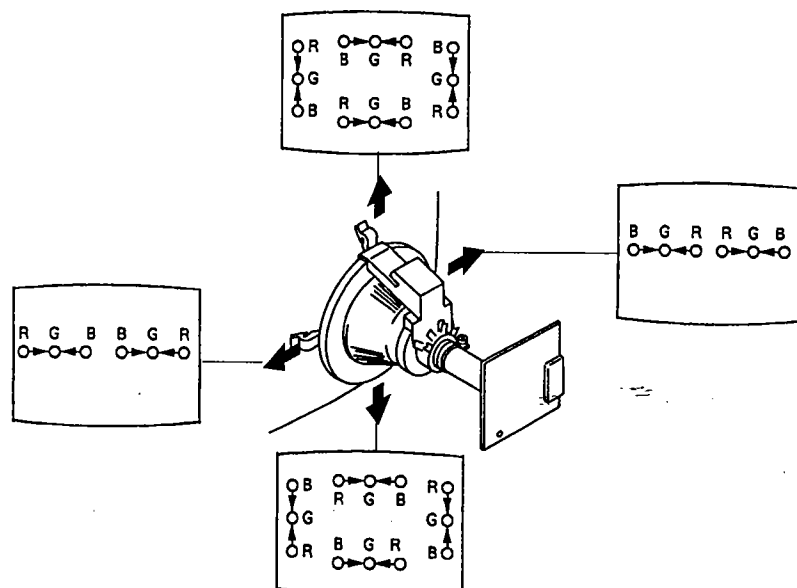
2. VMC (Vertical Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.



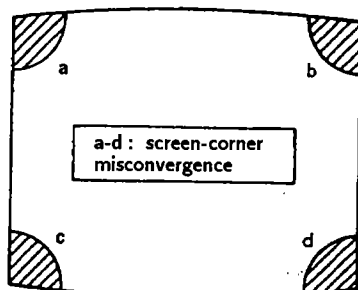
(2) Dynamic Convergence Adjustment

Perparation :

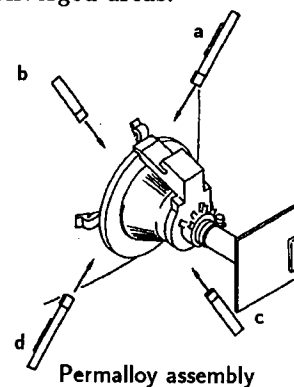
- Before starting perform Horizontal and Vertical Static convergence adjustment.
1. Slightly loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown below.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



Affix a Permalloy ass'y corresponding to the misconverged areas.



3-3. FOCUS

1. Tune in an off-air signal.
2. PICTURE → control to 80%.
3. Adjust the focus VR on A board so that the focus at the center of the screen is optimum.

(A magenta ring will appear if the focus is adjusted only in the center of the screen.
Adjust evenly throughout the entire screen.)

3-4. G2. WHITE BALANCE ADJUSTMENTS

(Using the Remote Commander)

1. G2 ADJUSTMENT(RV701)

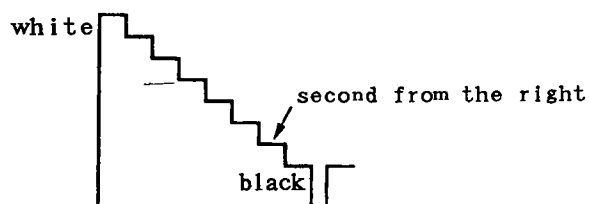
- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Confirm G1 voltage is within $30.0 \pm 5V$.
- 3) Apply DC voltage of 180V to the cathodes of R, G and B from DC stabilized power source.
- 4) While watching the picture, adjust the G2 control (RV701) to the just the retrace line disappears.

2. WHITE BALANCE ADJUSTMENT

- 1) Set to service mode.
- 2) Press **VIDEO** → **RESET** to normal
- 3) Input an entire white signal.
- 4) Set the PICTURE to minimum.
- 5) Select S BRT with **1** and **4** , and then set the level to minimum with **3** and **6**
- 6) Select G CUT and B CUT with **1** and **4** .
And adjust the level with **3** and **6** for the best white balance.
- 7) Set the PICTURE to maximum.
- 8) Select G AMP and B AMP with 1 and 4, and adjust the level with **3** and **6** for the best white balance.

3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black and white from the pattern generator.
- 3) BRIGHTNESS ... RESET
PICTURE minimum
- 4) Select S BRT with **1** and **4** , and adjust SUB BRIGHT level with **3** and **6** so that the stripe second from the right is dimly lit.



SECTION 4

SAFETY RELATED ADJUSTMENTS

☒ R549 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

IC301, PM501, R549, R564

①

1. Preparation before confirmation

- 1) Remove R663 on the F board and connect a variable resistor (RV1: about $4.7k\Omega$ $10k\Omega$) between pin ① of IC653 and B+ line.
- 2) Supply $120 \pm 2.0V$ AC to with variable auto-transformer.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to $1620 \pm 50\mu A$ with PICTURE and BRIGHT etc controls.
- 2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than $142.5V$ DC whereby the raster disappears during operation of hold-down circuit.

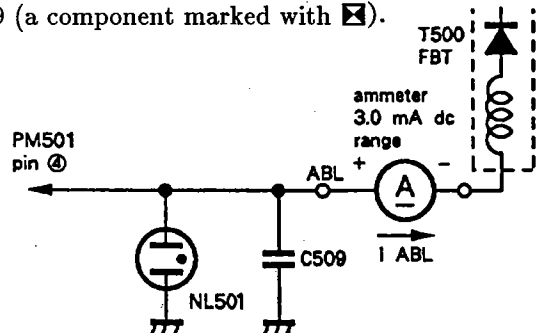
NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to $150 \pm 20\mu A$ with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than $144.0V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R549 (a component marked with ☒).



☒ R567 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500

②

1. Preparation before confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of pin ② of F-5 (F BOARD) is more than $127.0V$ DC when the set is operating normally with $120.0 \pm 2.0V$ AC supply.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to $1620 \pm 50\mu A$ with PICTURE and BRIGHT etc controls.
- 2) Apply DC voltage of over $140.0V$ DC gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source.

Confirm that the minimum voltage is less than $145.0V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to $150 \pm 20\mu A$ with PICTURE and BRIGHT etc controls.

- 4) Apply DC voltage of over $140.0V$ gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source.

Confirm that the minimum voltage is less than $145.0V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R567 (a component marked with ☒).

- 2) The following initial setting should always be performed when replacing the IC 102 (PCD 8582).

ITEM	NAME	REGISTER	ADJUSTMENT
VSOM	VP	VSMO	0
AFC	VP	AFC 1.0	0
REF	VP	REF 1.0	2
ROFF	VP	OFF NR	1
G OFF	VP	OFF NG	1
BOFF	VP	OFF NB	1
ABLM	VP	ABLM	1
TEST	AP	T	0
DRGB	VP	DRGB	1

*Please with the memory each items by pressing **MUTING** → and then press **ENTER**.

5-2. CIRCUIT ADJUSTMENT

RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of IF 201 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to base of Q 502.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **1** and **4**.
- 6) Adjust **3** and **6** to the 15.735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "00".
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.

V.FREQUENCY ADJUSTMENT

- 1) Set the Service Mode.
- 2) Receive an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across pin ⑥ of A-81 connector and ground.
- 4) Select VFER with **1** and **4**.
- 5) Adjust **3** and **6** to the 55 ± 1 Hz.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.

CHROMA TRAP ADJUSTMENT →

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Select NOTCH (VIDEO condition), turn ON by pressing **+**. And then set the COLOR VR to maximum setting position and SHARPNESS control to center.
- 4) Connect an oscilloscope to TP47R (R OUT) on C board.
- 5) Select C ROM with **1** and **4**, and then adjust 3.58MHz (CHROMA) ingredient is minimum with **3** and **6**.
- 6) Write into the memory by pressing **MUTING** → then **ENTER**.
- 7) Set NOTCH to OFF, and make normal condition with **VIDEO** → then **RESET**.

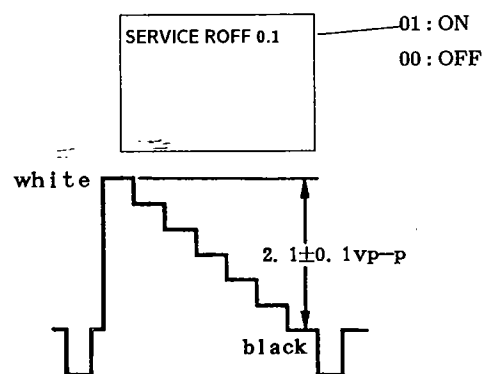
SUB CONTRAST ADJUSTMENT

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE MAX
COLOR MIN
R OFF ON
G OFF OFF
B OFF OFF

Press **VIDEO** → **-** (L) (It becomes minimum).

Select **3** (ON) and **6** (OFF) with **1** and **4**.

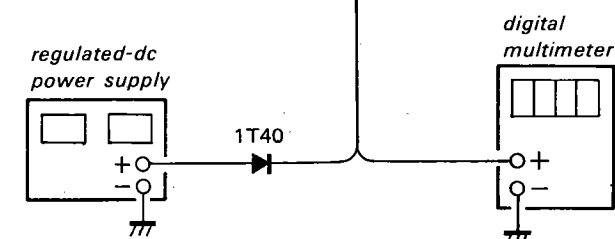
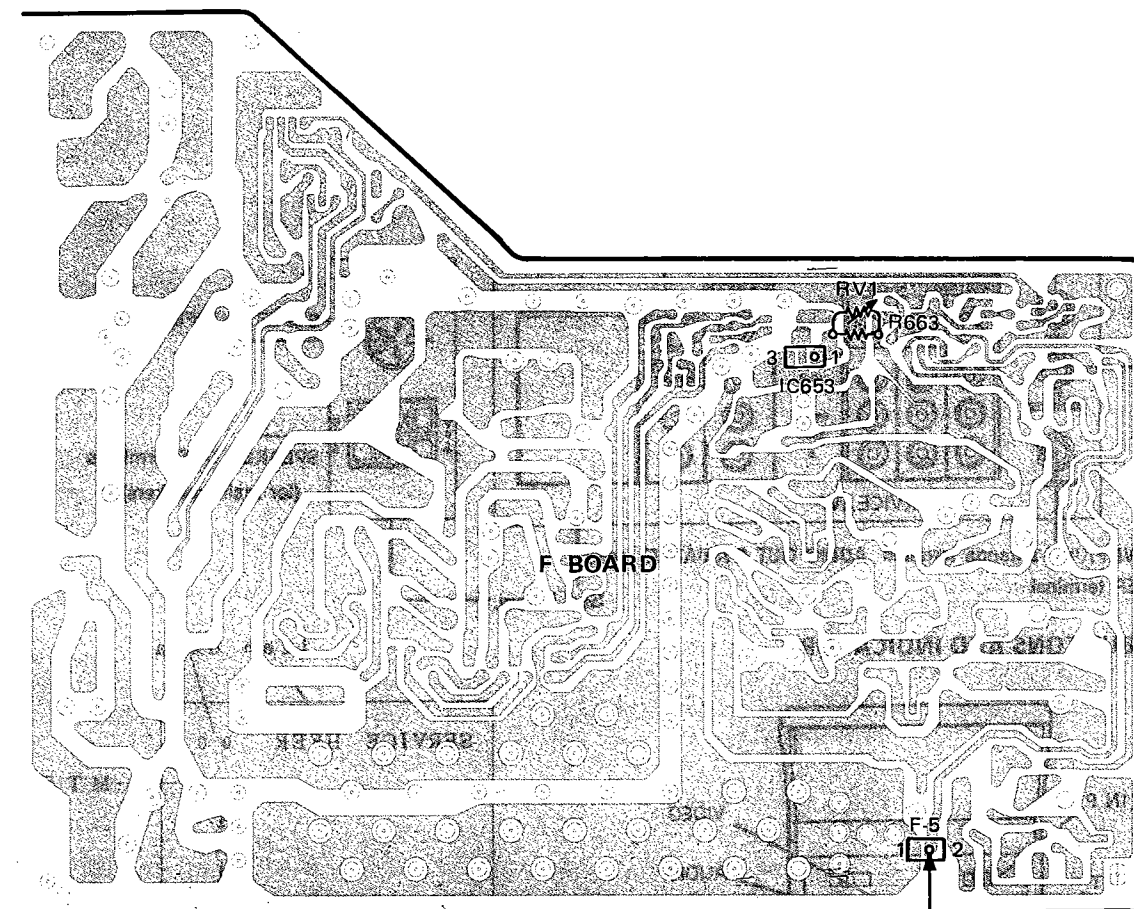
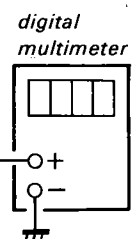
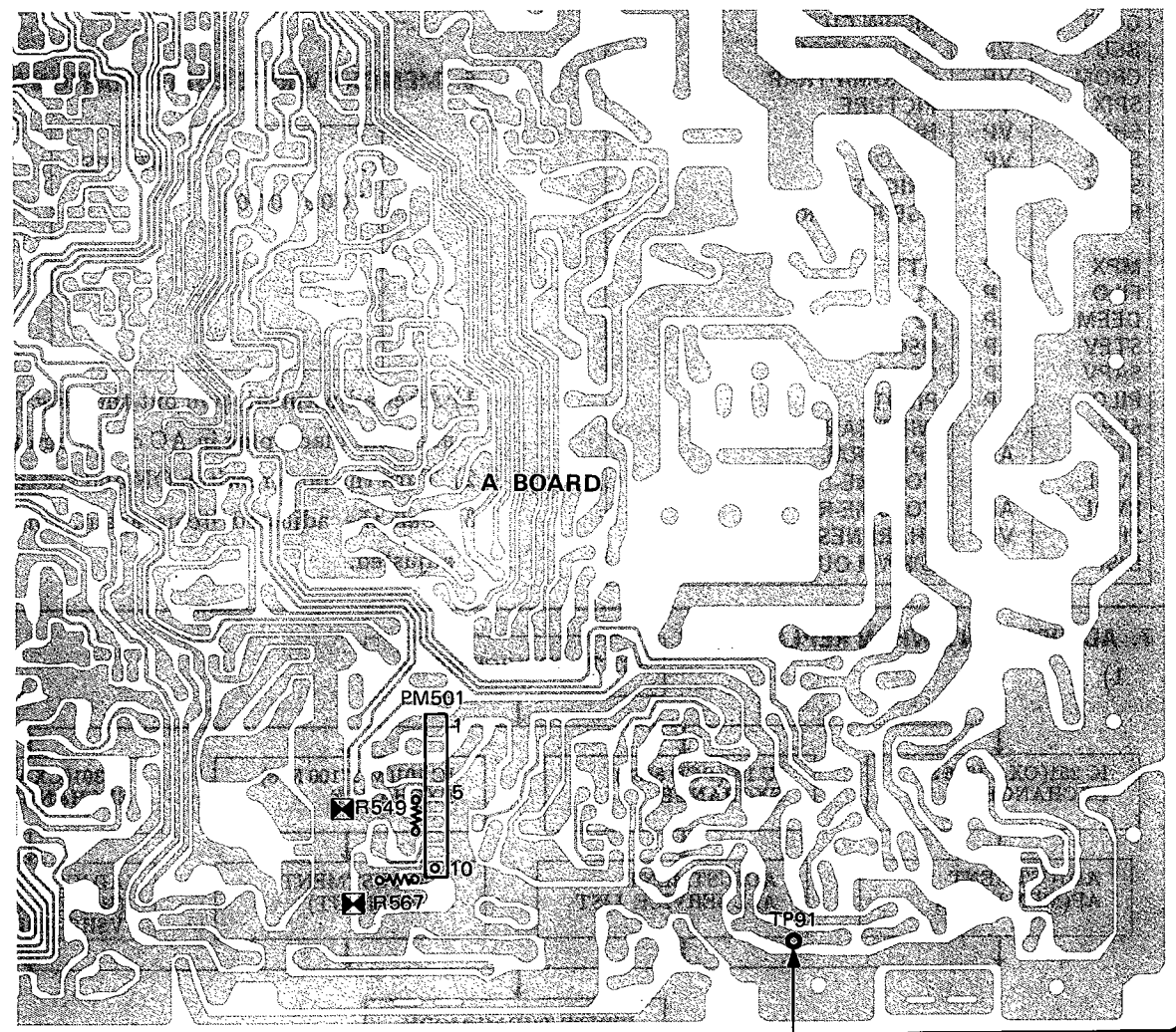


- 4) Connect an oscilloscope to TP47R (R OUT) on C board.
- 5) Adjust **3** and **6** to the $2.1 \pm 0.1Vp-p$ level by selecting SPIX with **1** and **4**.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.
- 7) Return the following back to normal after adjustment.
G OFF ON
B OFF ON
COLOR CENTER
PICTURE 80%

B+ VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC653 and R663.

- 1) Supply 130 ± 1.0 V AC to with variable auto-transformer.
- 2) Receive entirely monoscope signal.
- 3) Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of TP91 is less than 137.0V DC.
- 5) If step 4) is not satisfied, replace IC653 and R663 repeat above steps.



SECTION 5
CIRCUIT ADJUSTMENTS

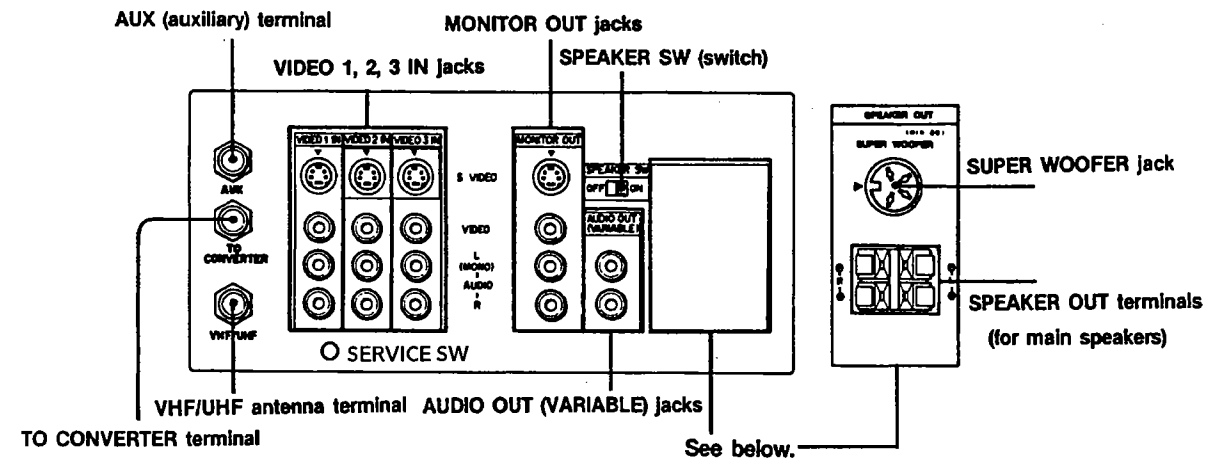
5-1. ELECTRICAL ADJUSTMENT BY
REMOTE COMMANDER

Use of Remote Commander (RM-786) can be performed
all circuit adjustments about this model.

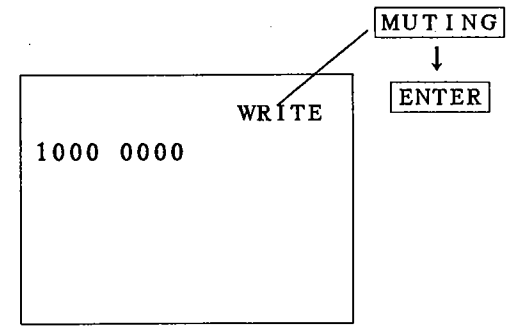
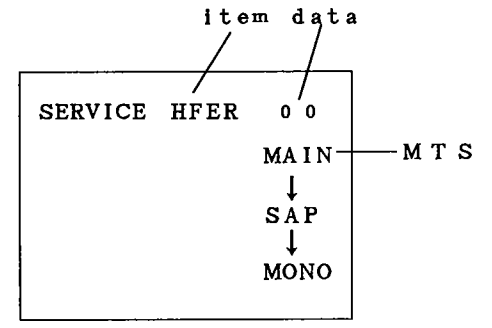
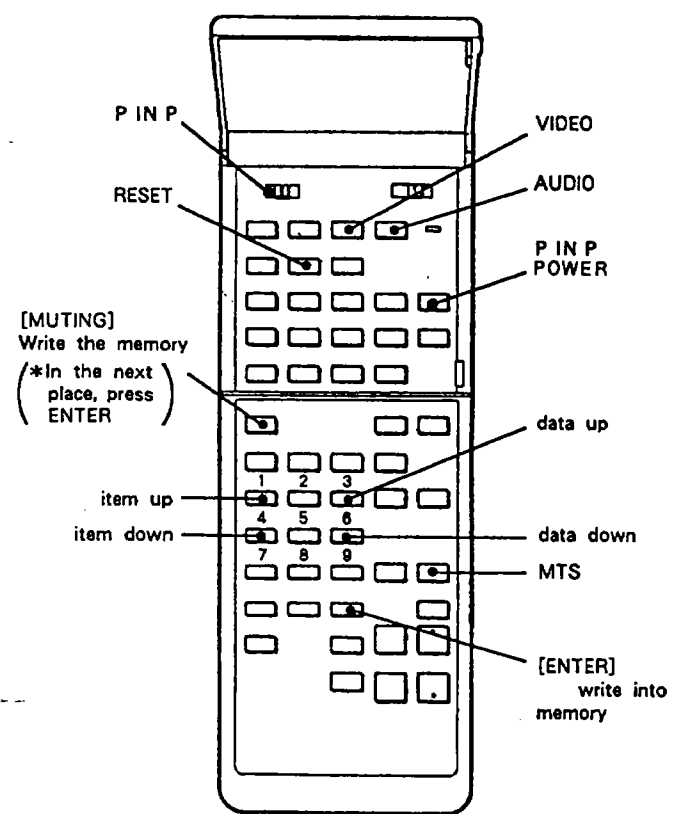
[BASIC ADJUSTMENTS]

1. METHOD OF SETTING THE SERVICE MODE

- 1) Press **POWER** button on the Remote Commander
while pressing switch on the rear of the set.



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

ITEM	NAME REGISTER	
HFRE	VP	H-FREQUENCY 1
VFER	VP	V-FREQUENCY 1
VPOS	VP	V-SHIFT
VSIZ	VP	V-SIZE
VLIN	VP	V-LINEARITY
VSCO	VP	S-CORRECTION
HPOS	VP	H-PHASE
HSIZ	VP	H-SIZE
PAMP	VP	PIN AMP.
CPIN	VP	CORNER PIN
PPHA	VP	PIN PHASE
VCOM	VP	V-COMP
GAMP	VP	GREEN AMP.
BAMP	VP	BLUE AMP.
GCUT	VP	GREEN CUT OFF.
BCUT	VP	BLUE CUTOFF
CROM	VP	CHROMA TRAP
SPIX	VP	PICTURE
SHUE	VP	HUE
SCOL	VP	COLOR
SBRT	VP	BRIGHT
RGBP	VP	RGB PICTURE
MPX	AP	ATT
FILO	AP	I1
DEEM	AP	I2
STEV	AP	OSC 1
SAPV	AP	OSC 2
PILO	AP	PILOT
SEP	AP	WIDE BAND
VD	AP	SPECTRAL
LVOL	AP	VOLUME-L
RVOL	AP	VOLUME-R
SHAR	VP	SHARPNESS
DISP	VP	③PWM OUTPUT

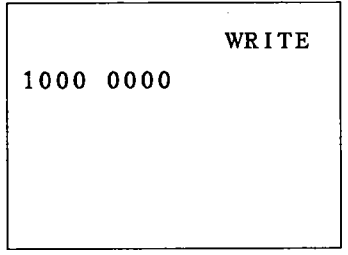
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

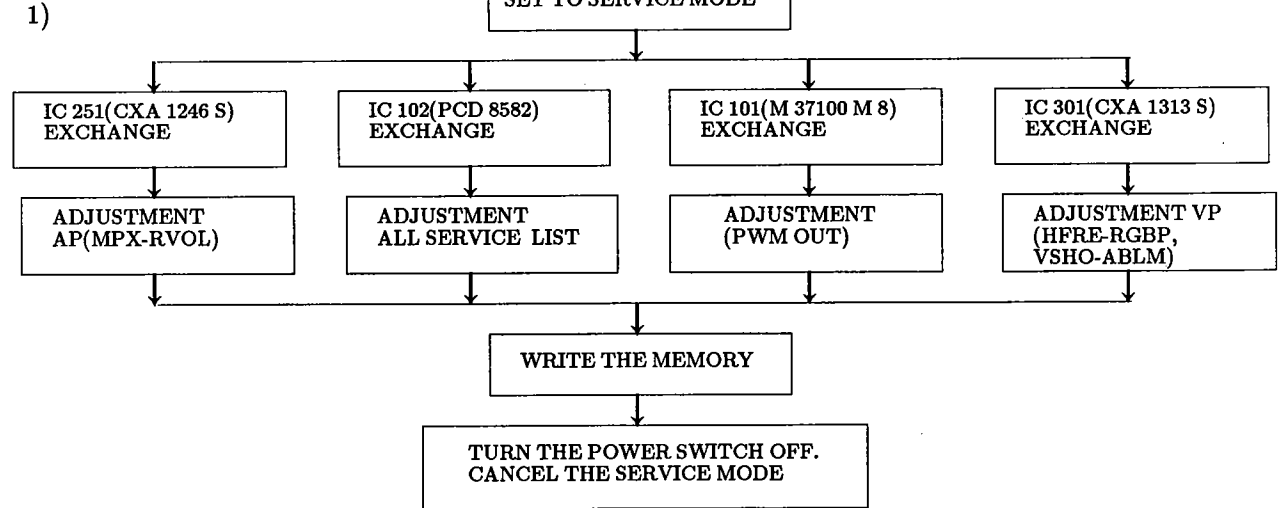
- 1) Set to Service Mode.
2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
3) Press **MUTING** button indicate WRITE (RED) on screen.
4) Press **ENTER** button to write for memory. (At this time WRITE (YELLOW) is indicated on screen.)

6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

7. ADJUSTMENT WHEN REPLACING IC



NOTE : If service mode is canceled before writing into memory, the adjustment data is not recorded.
Please write into memory, after adjustment.

HUE, SUB COLOR ADJUSTMENT

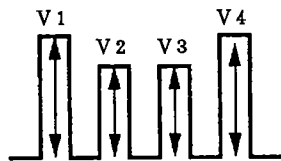
Input a color-bar signal.

Press **VIDEO** → then **RESET** to normal.

Set to Service Mode.

Connect an oscilloscope to TP47B (B OUT) on C board.

Adjust **3** and **4** to the $V_1=V_4$ and $V_2=V_3$ by selecting **SHUE** and **SCOL** with **1** and **4**.



Write into the memory by pressing **MUTING** → then **ENTER**.

SIZE ADJUSTMENT

Set to Service Mode.

Input a cross-hatch signal.

Adjust **3** and **6** to the best vertical size by selecting **SIZE** with **1** and **4**.

Write into the memory by pressing **MUTING** → then **ENTER**.

SIZE ADJUSTMENT

Input a cross-hatch signal.

Press **VIDEO** → then **RESET** to normal.

Set to Service Mode.

Adjust **3** and **6** to best horizontal size by selecting **H.**

SIZE with **1** and **4**.

Write into the memory by pressing **MUTING** → then **ENTER**.

ENTER ADJUSTMENT

ce: Perform this adjustment after H.FREQ adjustment.

Input a cross-hatch signal.

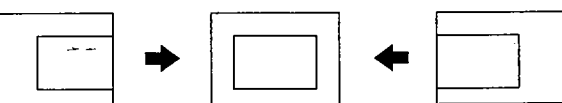
Press **VIDEO** → then **RESET** to normal.

Set to Service Mode.

Select **HPOS** with **1** and **4**.

Adjust **3** and **6** to the best picture.

Write into the memory by pressing **MUTING** → then **ENTER**.

**PIN AMP, CORNER PIN AND PIN PHASE ADJUSTMENT**

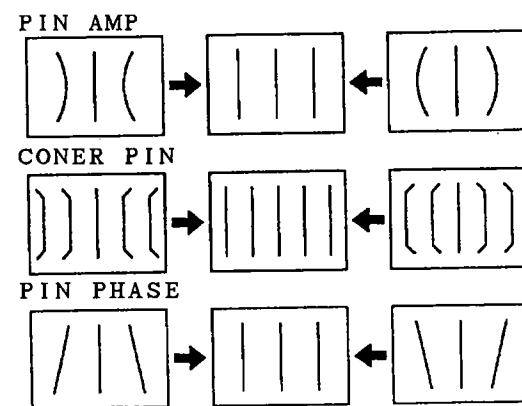
1) Input a cross-hatch signal.

2) Press **VIDEO** → then **RESET** to normal.

3) Set to Service Mode.

4) Select **PAMP**, **CPIN** and **PPHA** with **1** and **4**.

5) Adjust **3** and **6** to the best picture.



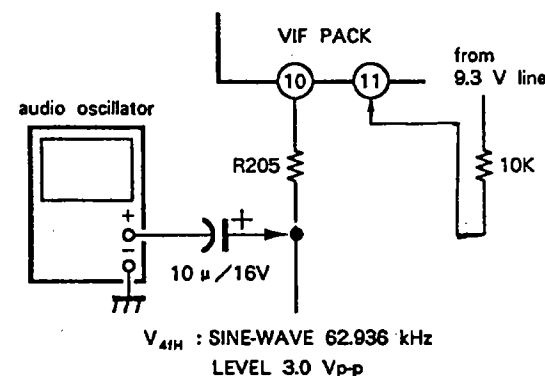
6) Write the memory by **MUTING** → **ENTER**.

FILTER ADJUSTMENT

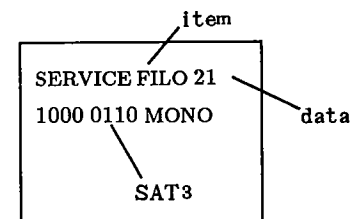
1) Set to Service Mode.

2) Select to **TEST** with **1** and **4**, set the data to "1".
Then select **MPX** and change data to "08".

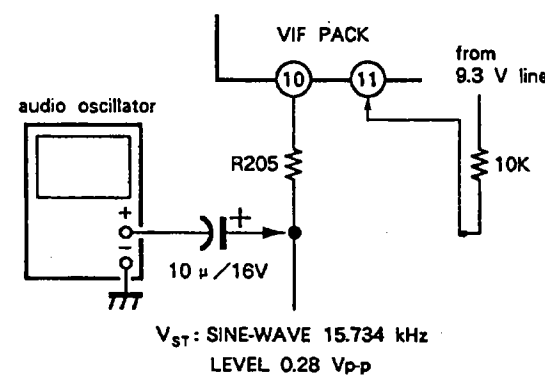
3) Connect an audio oscillator to R205 using a capacitor (10μF/16V), set frequency to 62.926kHz.
And then, through the 10kΩ resistor, feed 9.3V into the pin ⑪ of VIF pack.



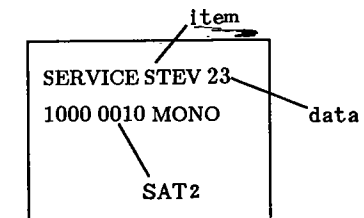
- 4) Make the data "00" by selecting **FILO** with **1** and **4**.
And then, send up the data gradually by pressing **6**.
Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of **FIOL** to $\frac{D1 + D2}{2}$.
- 7) Write into the memory by pressing **MUTING** → then **ENTER**.

**ST VCO ADJUSTMENT**

- 1) Set to Service Mode.
- 2) Select **TEST** when **1** and **4**, set the data to "1".
And then press **MTS** to **MONO**.
- 3) Select **MPX**, set the data "8".
- 4) Connect an audio oscillator to R205 using electrolytic capacitor (10μF/16V) and apply the frequency V_{st}. Then, apply DC voltage to pin ⑪ of VIF pack using 10kΩ connect to 9.3V line.



- 5) Select **STEV** with **1** and **4**, set the data to "00" with **6**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of **STEV** to $\frac{D1 + D2}{2}$.
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.

**MPX IN LEVEL ADJUSTMENT**

- 1) Set to Service Mode.
- 2) Select **TEST** with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to **MONO**.
- 3) Select **MPX** with **1** and **4**, set the data to "08" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

PILOT CANCEL ADJUSTMENT

- 1) Set to the Service Mode.
- 2) Select **TEST** with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to **MAIN**.
- 3) Select **PILO** with **1** and **4**, set the data to "08" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

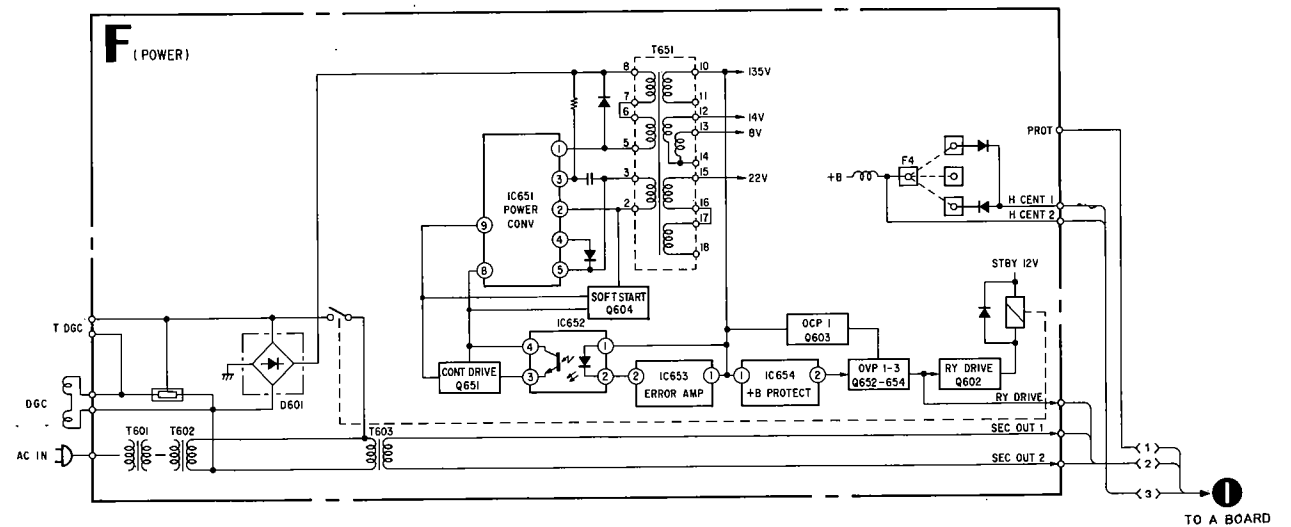
SAP VCO f₀ ADJUSTMENT

- 1) Set to Service Mode.
- 2) Receive a stereo broadcast signal with **SAP**.
- 3) Select **TEST** with **1** and **4**, set to the data to "0".
And then, press to **MTS** to **MAIN**.
- 4) Connect a digital multimeter to pin ⑪ of A-23 connector. This voltage reading will equal V₁.
- 5) Press **MTS** to **SAP** and this voltage will equal V₂.
- 6) Select **SAPV** with **1** and **4**, adjust **3** and **6** so that $V_2 = V_1 \pm 0.03$ VDC.
- 7) Write the memory by **MUTING** → **ENTER**.

SEPARATION ADJUSTMENT

- 1) Set to Service Mode.
- 2) Press **MTS** to **MAIN** and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.
- 3) Select **SEP** and **VD** with **1** and **4**, adjust **3** and **6** so that a clear stereo sound is effected.

. BLOCK DIAGRAMS (1)

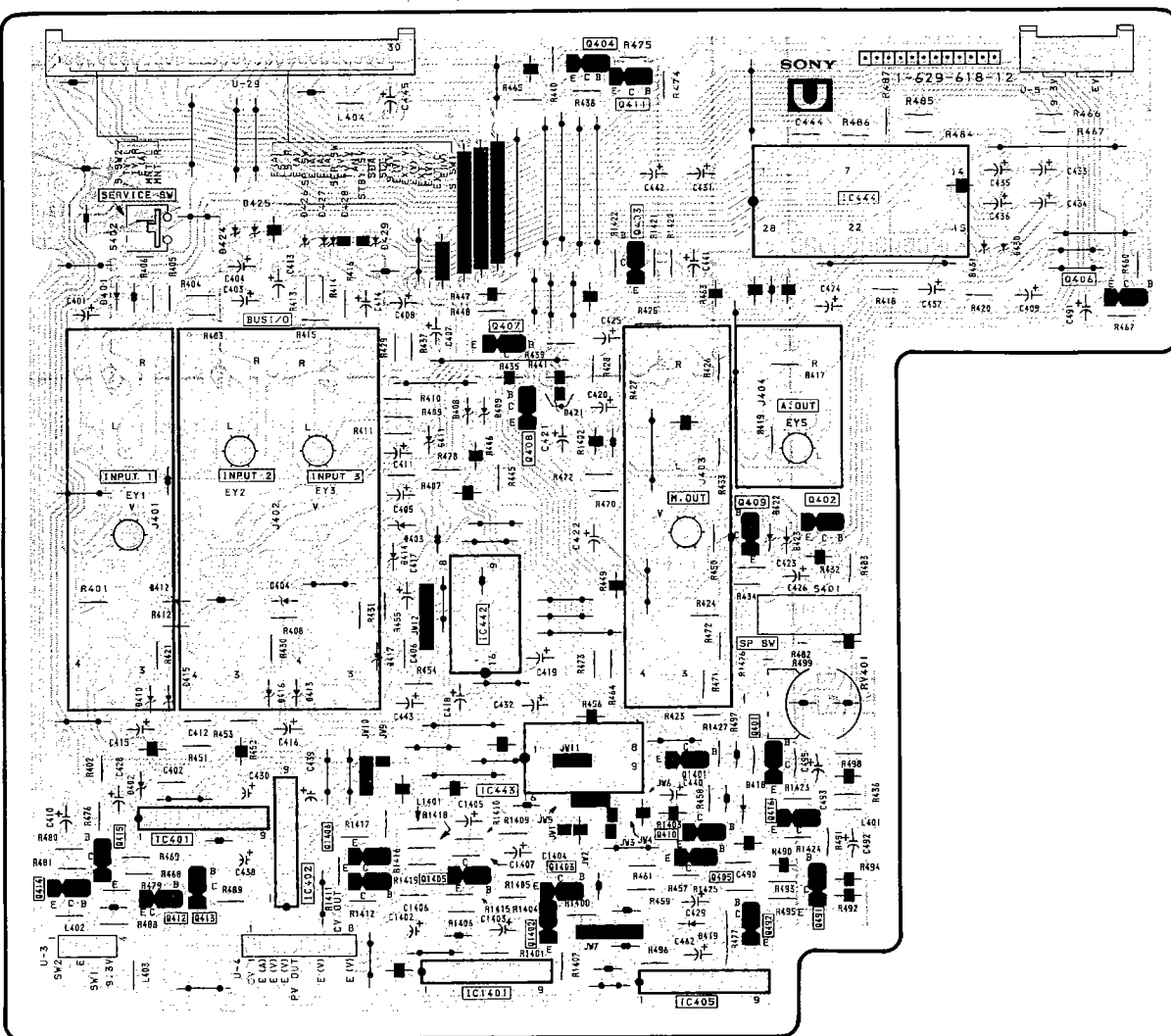


KV-27XBR50
RM-786

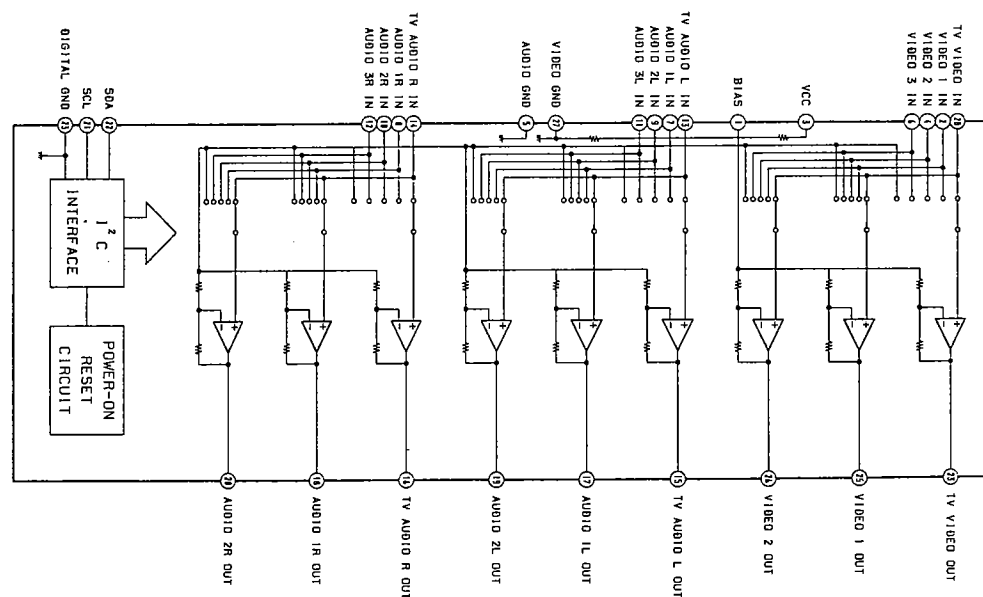
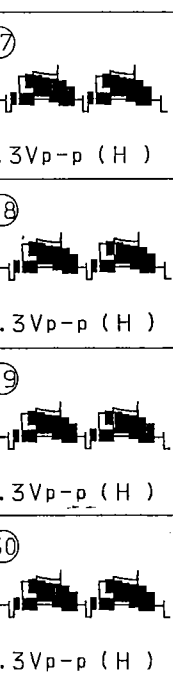
KV-27XBR50
RM-786

U
(VIDEO SW, AUDIO SW, Y/C SW, LOGIC)

-U Board-

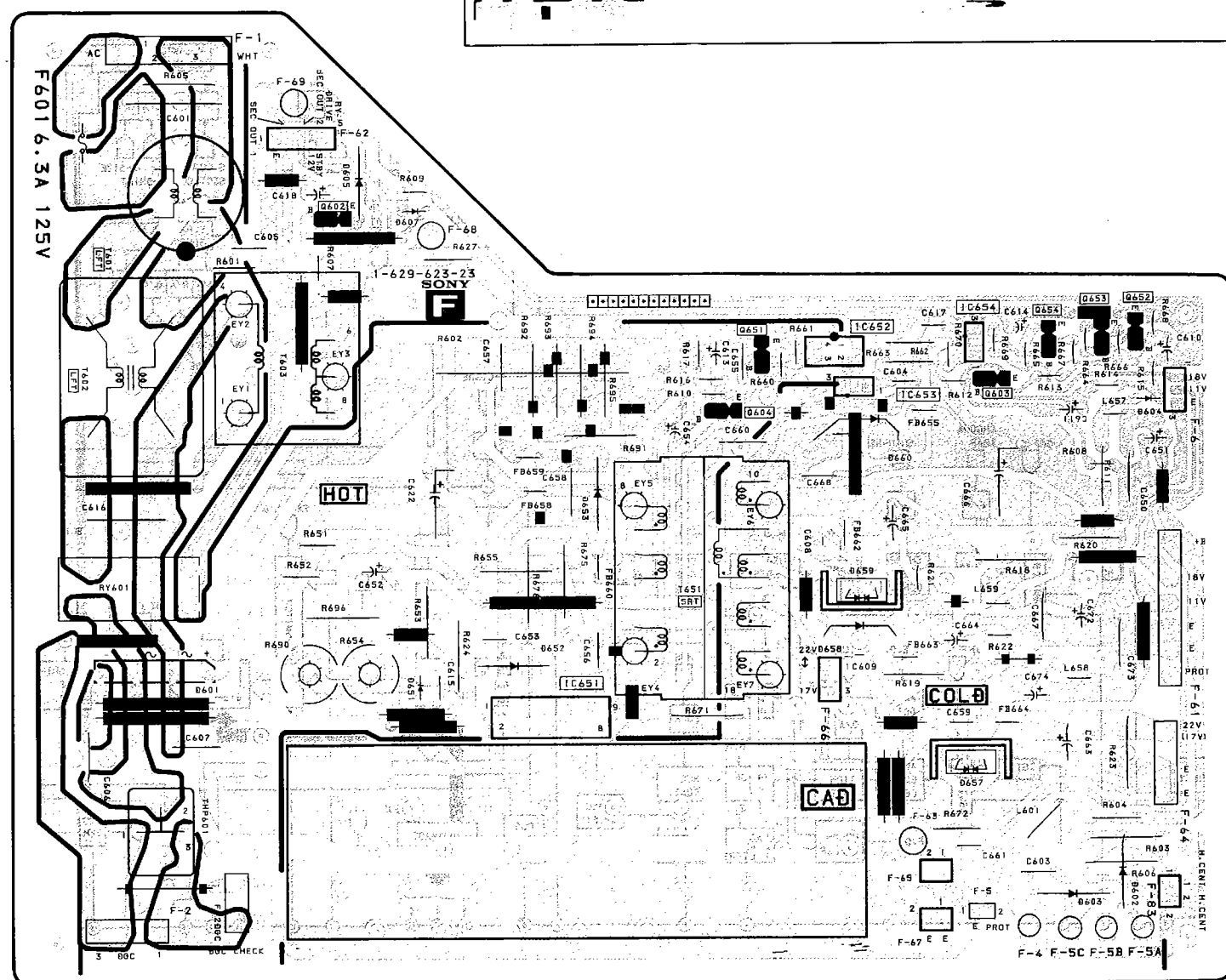


WAVEFORMS OF U BOARD U BOARD IC444 CXA1114P



F
(POWER)

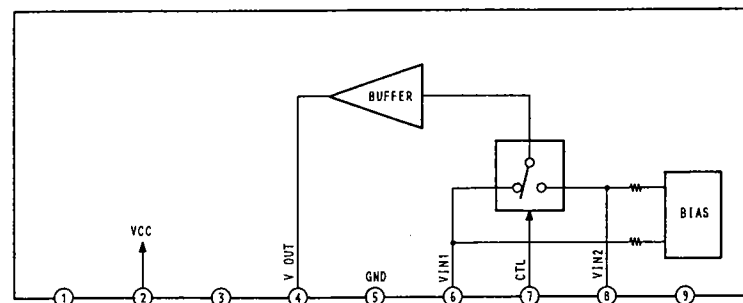
-F Board-



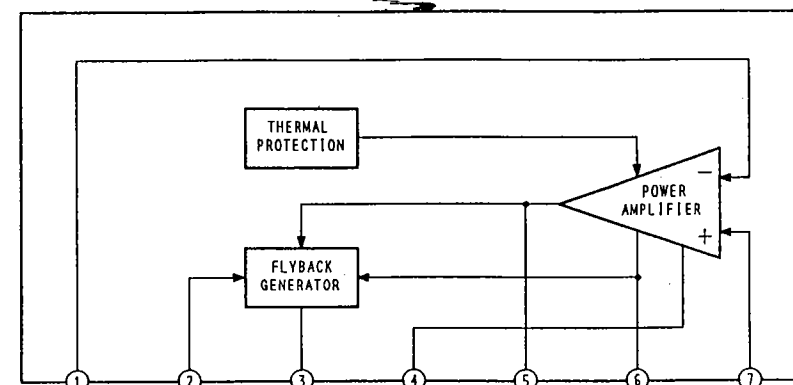
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

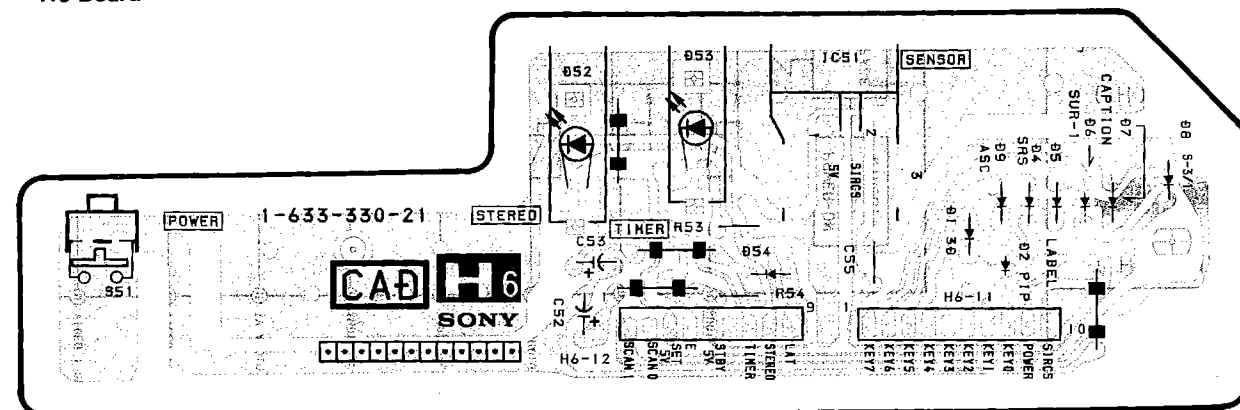
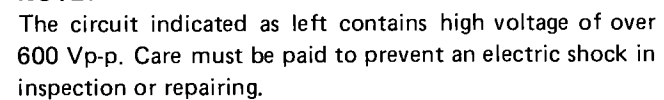
U BOARD IC405 IC1401 NJM2233BS



A BOARD IC500 TDA8172



—H6 Board—



KV-27XBR50
RM-786



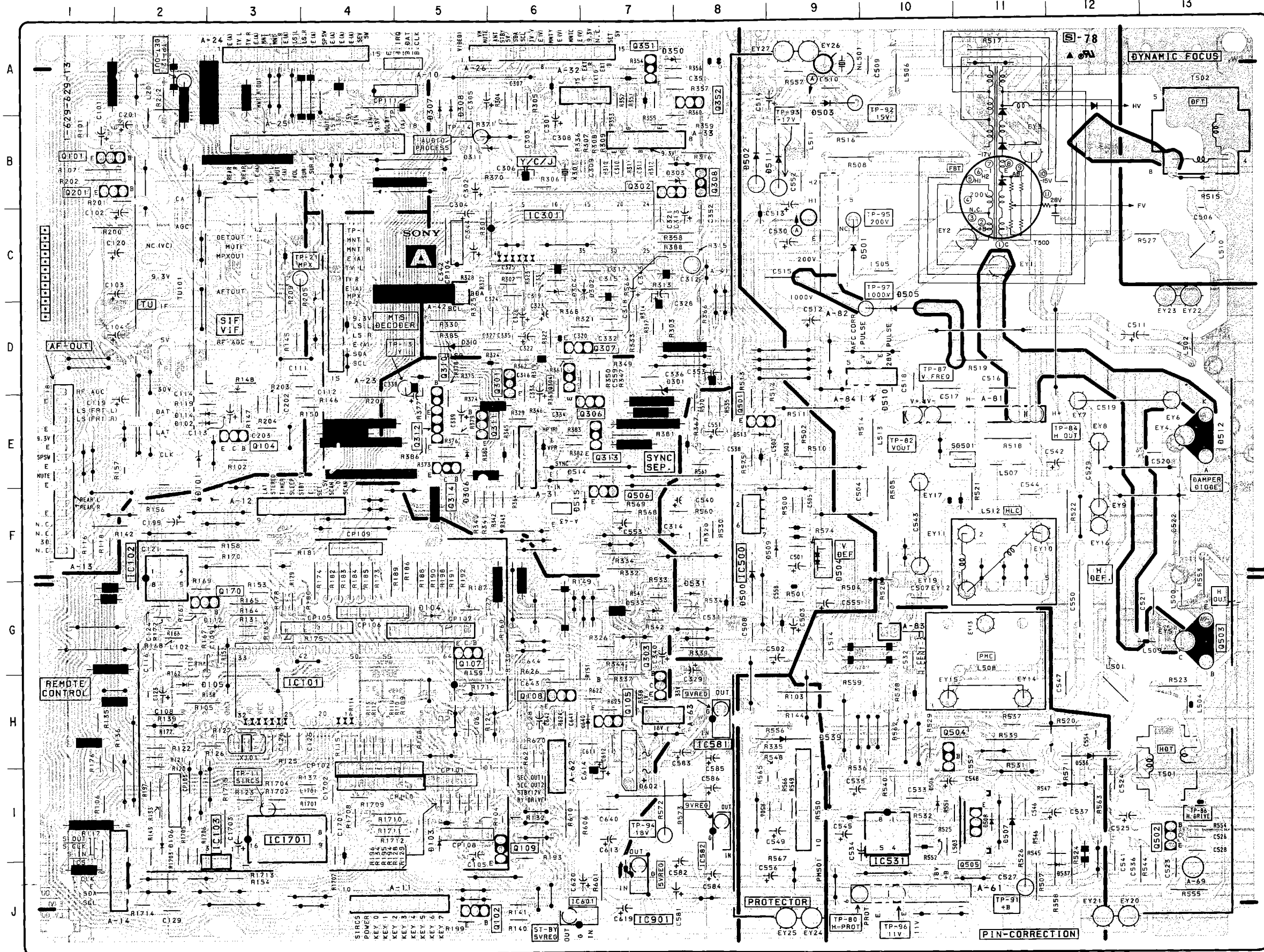
A

(Y/C JUNGLE, PIN MOD, CONTROL, TUNER, VIF)

-A Board-

LOCATION OF A BOARD

IC		DIODE	
IC101	H-4	0101	E-2
IC102	F-2	0102	E-2
IC103	J-3	0103	I-5
IC301	C-6	0104	G-5
IC500	F-8	0105	H-2
IC531	I-10	0106	I-2
IC581	H-8	0112	G-3
IC582	I-8	0114	E-2
IC601	J-7	0301	D-7
IC901	J-7	0302	C-7
IC1701	I-3	0303	B-8
		0304	C-6
		0307	A-5
		0308	A-5
		0310	D-5
		0311	B-6
		0350	A-8
		0500	F-8
		0501	C-9
		0502	B-8
		0503	A-9
		0504	F-9
		0505	D-10
		0506	I-10
		0507	I-11
		0508	I-11
		0509	F-9
		0511	B-9
		0512	E-13
		0513	E-8
		0514	E-7
		0515	F-7
		0531	G-8
		0533	G-7
		0536	H-12
		0537	J-12
		0539	H-9
		0602	H-7
		0640	H-7
TRANSISTER			
Q101	B-1		
Q102	J-5		
Q104	E-3		
Q105	H-7		
Q107	G-5		
Q108	H-6		
Q109	I-6		
Q170	G-2		
Q201	B-1		
Q301	D-6		
Q302	B-7		
Q303	H-5		
Q304	D-6		
Q306	E-7		
Q307	D-7		
Q308	B-8		
Q310	E-5		
Q311	E-5		
Q312	E-5		
Q313	E-7		
Q314	E-5		
Q351	A-7		
Q352	A-8		
Q501	E-8		
Q502	I-13		
Q503	G-13		
Q504	H-10		
Q505	I-11		
Q506	F-7		



SECTION 7

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

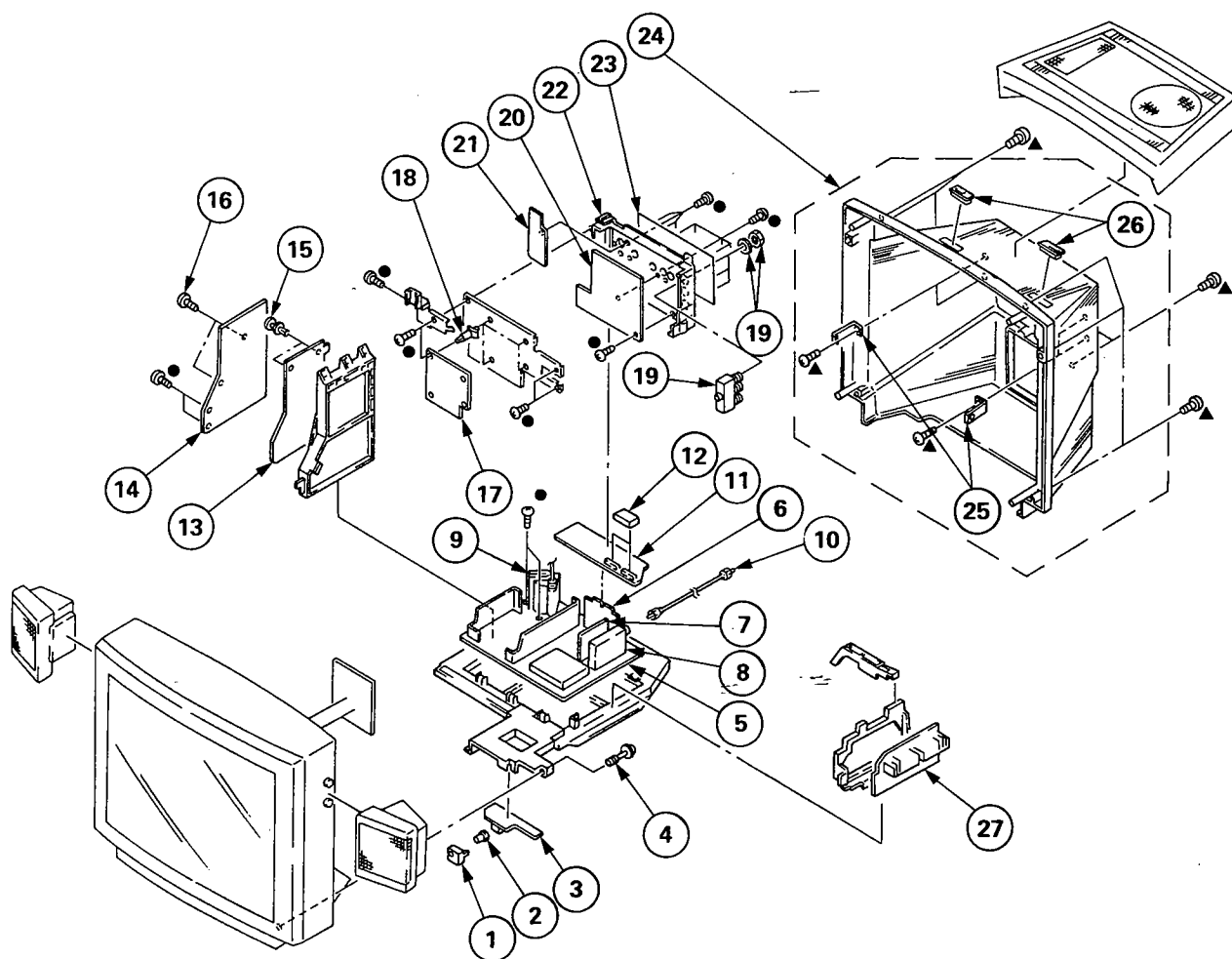
The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CHASSIS

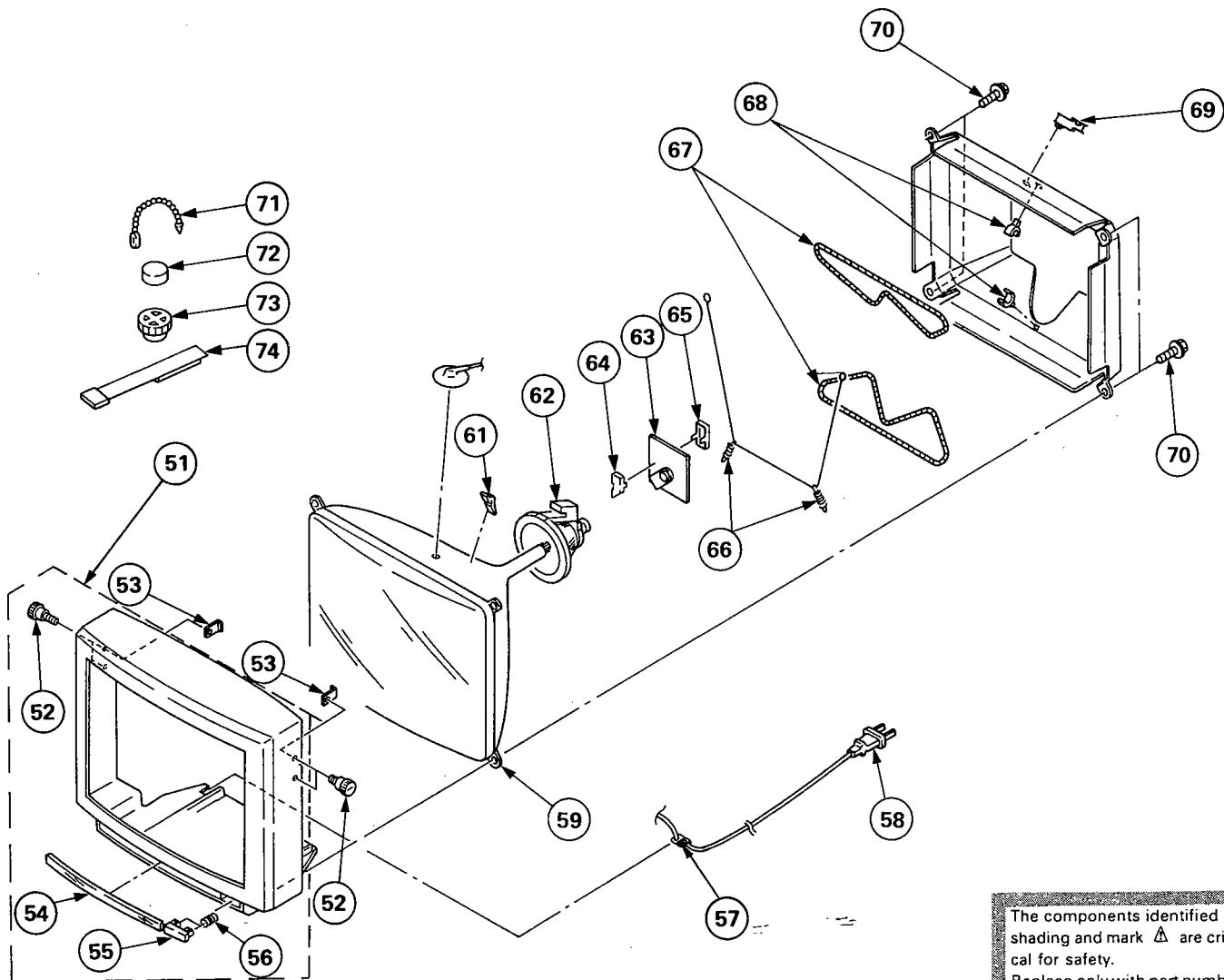
●: BVTP 3x12 7-685-648-79

▲: BVTP 4x16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*4-381-686-01	BRACKET (B), LIGHT GUIDE		15	3-531-576-31	RIVET (DIA. 3), NYLON	
2	*4-374-987-01	GUIDE, LIGHT		16	4-388-477-01	SCREW (3X16), TAPPING, BV WASHER	
3	*1-633-330-11	H6 BOARD		17	*A-1394-223-A	T BOARD, COMPLETE	
4	4-319-520-11	SCREW, SPECIAL (+PW4X30)		18	*3-703-353-04	SUPPORT, PC BOARD	
5	*A-1296-702-A	A BOARD, COMPLETE	7	19	Δ 1-417-177-11	SELECTOR, ANTENNA (AS-1)	
6	8-741-101-19	IC SBX1652-01		20	*A-1394-182-A	U BOARD, COMPLETE	
7	*1-635-250-11	X1 BOARD		21	*1-629-648-11	J BOARD	
8	Δ 1-463-771-11	TUNER, ET (BTP-201A)		22	4-393-419-31	TERMINAL BOARD, ANTENNA	
9	Δ 1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)		23	4-389-643-01	LABEL, ANTENNA	
10	*1-556-945-21	CABLE, P-P		24	X-4393-417-1	COVER ASSY, REAR	25, 26
11	*A-1135-632-A	B BOARD, COMPLETE		25	4-389-636-01	HOLDER (B), SP	
12	*1-568-507-11	CONNECTOR, BRIDGE 15P		26	4-389-644-01	HOLDER, 3D	
13	*1-629-628-11	FO BOARD		27	*A-1385-070-A	K BOARD, COMPLETE	
14	*A-1245-452-A	F BOARD, COMPLETE					

7-2. PICTURE TUBE



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

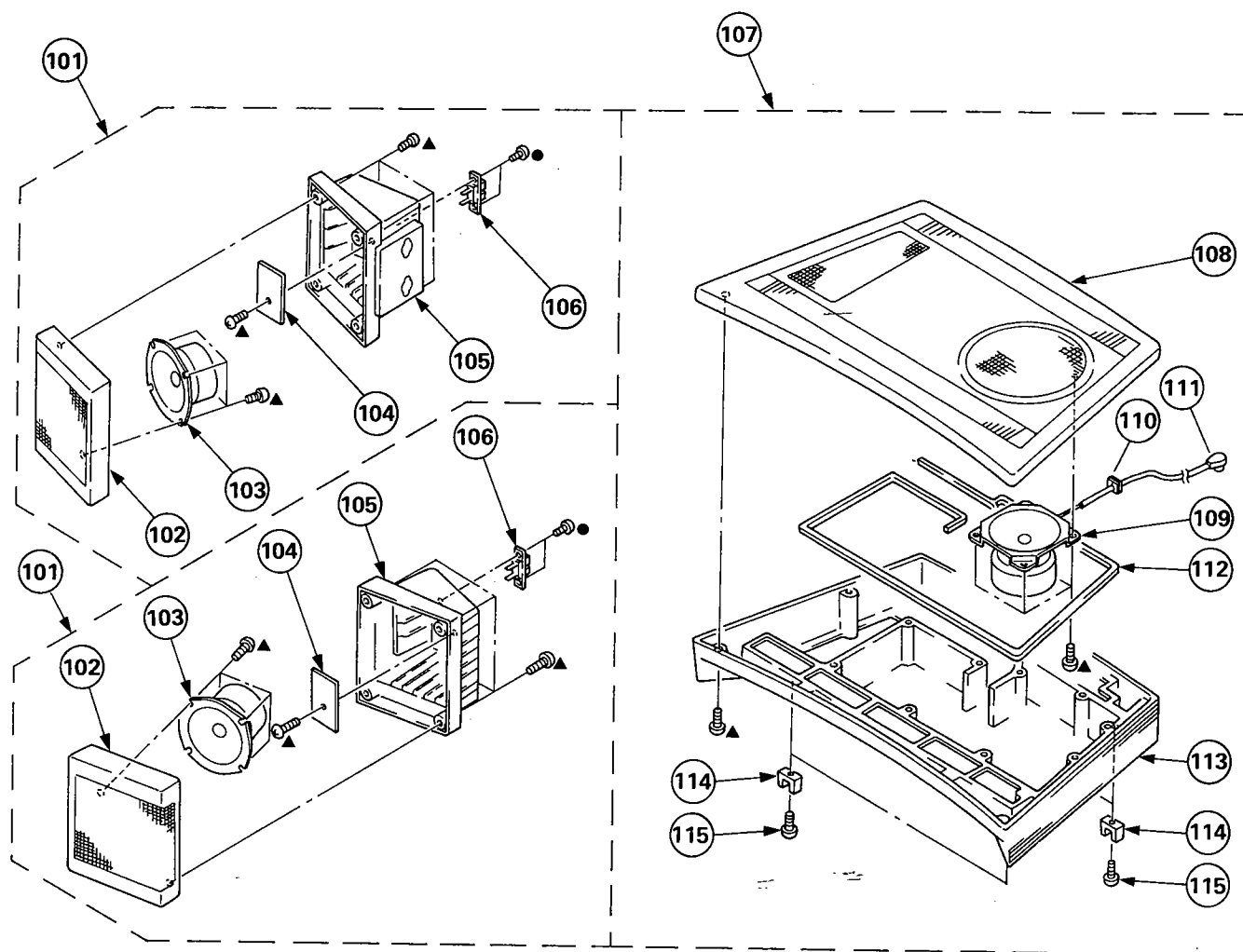
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4393-418-1	CABINET ASSY (WITH BEZEL ASSY)	54-56	63	*A-1330-949-A	C BOARD, COMPLETE	
52	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL		64	*4-379-167-01	COVER (MAIN), CV	
53	4-389-637-01	HOLDER (A), SP		65	*4-379-160-01	COVER (REAR LID), CV	
54	4-393-469-01	PANEL, ORNAMENTAL		66	4-369-318-00	SPRING, TENSION	
55	4-393-467-01	BUTTON, POWER		67	Δ 1-426-350-11	COIL, DEMAGNETIZATION	
56	4-389-658-01	SPRING, COMPRESSION		68	*4-371-629-01	STOPPER, WIRE	
57	Δ 4-388-328-01	GROMMET, AC CORD		69	*4-387-284-01	HOLDER, LEAD	
58	Δ 1-559-396-11	CORD, POWER		70	4-390-505-01	SCREW (7), TAPPING	
59	Δ 8-737-753-05	PICTURE TUBE (A68JMT50X)		71	4-308-870-00	CLIP, LEAD WIRE	
61	3-703-961-01	SPACER, DY		72	1-452-032-00	MAGNET, DISK; 10MM ϕ	
62	Δ 1-451-275-31	DEFLECTION YOKE (Y28PFA)		73	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
				74	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

7-3. SPEAKERS

●: BVTP 3x12 7-685-648-79

▲: BVTP 4x16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1478-508-A	SP BLOCK ASSY		102-106	109	1-544-221-11	SPEAKER
102	X-4388-331-1	BOX ASSY, FRONT SPEAKER		110	4-389-661-01	HOLDER, SPEAKER CORD	
103	1-544-320-11	SPEAKER		111	1-575-109-11	CORD, CONNECTION	
104	*1-634-376-11	S BOARD		112	*4-389-653-01	PACKING	
105	X-4388-332-1	BOX ASSY, REAR SPEAKER		113	*4-389-657-01	BOX (L), WOOFER	
106	1-537-022-21	TERMINAL BOARD (SPEAKER)		114	4-389-642-01	FOOT	
107	*A-1478-507-A	WOOFER BLOCK ASSY		108-115	115	4-304-494-11	SCREW, TAPPING, +PW4X16
108	X-4388-335-1	BOX ASSY, WOOFER					

B

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μ F, PF : μ μ F • MMH : mH, UH : μ H

• The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1135-632-A	B BOARD, COMPLETE	*****					
*1-564-505-11	PLUG, CONNECTOR 2P						
*1-564-506-11	PLUG, CONNECTOR 3P						
*1-564-507-11	PLUG, CONNECTOR 4P						
*1-564-508-11	PLUG, CONNECTOR 5P						
1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P						
*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P						
*1-568-376-11	CONNECTOR, HINGE (RECEPTACLE) 7P						
*4-341-751-01	EYELET (EY1)						
<CAPACITOR>				<IC>			
C1301	1-130-475-00	MYLAR	0.0022MF 5% 50V	IC1301	8-759-972-43	IC PCD8582	
C1302	1-124-119-00	ELECT	330MF 20% 16V	IC1302	8-752-037-15	IC CXA1387S	
C1303	1-126-233-11	ELECT	22MF 20% 25V	IC1303	8-752-035-53	IC CXA1315P	
C1304	1-126-233-11	ELECT	22MF 20% 25V	IC1304	8-759-710-69	IC NJM2233BS	
C1305	1-126-233-11	ELECT	22MF 20% 25V	IC1305	8-759-710-69	IC NJM2233BS	
C1307	1-123-875-11	ELECT	10MF 20% 50V	<TRANSISTOR>			
C1308	1-124-893-11	ELECT	2200MF 20% 10V	Q1301	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1309	1 102 121-00	CERAMIC	0.0022MF 10% 50V	Q1302	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C1310	1-123 875-11	ELECT	10MF 20% 50V	Q1303	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1313	1-124-477-11	ELECT	47MF 20% 16V	Q1308	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1314	1-124-477-11	ELECT	47MF 20% 16V	Q1309	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1315	1-124-477-11	ELECT	47MF 20% 16V	<RESISTOR>			
C1316	1-124-477-11	ELECT	47MF 20% 16V	R1301	1-249-429-11	CARBON 10K 5% 1/4W	
C1317	1-124-477-11	ELECT	47MF 20% 16V	R1302	1-249-409-11	CARBON 220 5% 1/4W	
C1319	1-124-477-11	ELECT	47MF 20% 16V	R1303	1-249-409-11	CARBON 220 5% 1/4W	
C1321	1-124-477-11	ELECT	47MF 20% 16V	R1304	1-249-429-11	CARBON 10K 5% 1/4W	
C1323	1-124-791-11	ELECT	1MF 20% 50V	R1305	1-249-429-11	CARBON 10K 5% 1/4W	
C1325	1-124-477-11	ELECT	47MF 20% 16V	R1306	1-249-441-11	CARBON 100K 5% 1/4W	
C1326	1-136-161-00	FILM	0.047MF 5% 50V	R1307	1-249-429-11	CARBON 10K 5% 1/4W	
C1327	1-119-217-00	ELECT	47MF 16V	R1308	1-249-417-11	CARBON 1K 5% 1/4W	
C1342	1-102-971-00	CERAMIC	82PF 5% 50V	R1309	1-249-425-11	CARBON 4.7K 5% 1/4W	
C1343	1-123-875-11	ELECT	10MF 20% 50V	R1310	1-249-428-11	CARBON 8.2K 5% 1/4W	
C1344	1-126-233-11	ELECT	22MF 20% 25V	R1311	1-249-409-11	CARBON 220 5% 1/4W	
C1345	1-126-233-11	ELECT	22MF 20% 25V	R1312	1-249-409-11	CARBON 220 5% 1/4W	
C1346	1-126-233-11	ELECT	22MF 20% 25V	R1313	1-249-417-11	CARBON 1K 5% 1/4W	
C1347	1-124-477-11	ELECT	47MF 20% 16V	R1314	1-249-417-11	CARBON 1K 5% 1/4W	
C1349	1-124-477-11	ELECT	47MF 20% 16V	R1315	1-249-425-11	CARBON 4.7K 5% 1/4W	
<FILTER BLOCK>				R1317	1-249-426-11	CARBON 5.6K 5% 1/4W	
CM1301	1-464-880-11	FILTER BLOCK, COM (CFB-2)		R1320	1-249-405-11	CARBON 100 5% 1/4W	
<DIODE>				R1321	1-249-405-11	CARBON 100 5% 1/4W	
D1301	8-719-911-19	DIODE 1SS119		R1322	1-249-405-11	CARBON 100 5% 1/4W	
D1302	8-719-911-19	DIODE 1SS119		R1323	1-249-405-11	CARBON 100 5% 1/4W	
D1303	8-719-109-97	DIODE RD6.8ES-B2		R1324	1-249-405-11	CARBON 100 5% 1/4W	
D1304	8-719-109-97	DIODE RD6.8ES-B2		R1325	1-249-405-11	CARBON 100 5% 1/4W	
				R1326	1-249-433-11	CARBON 22K 5% 1/4W	
				R1327	1-249-405-11	CARBON 100 5% 1/4W	
				R1328	1-249-405-11	CARBON 100 5% 1/4W	
				R1329	1-249-405-11	CARBON 100 5% 1/4W	
				R1330	1-249-405-11	CARBON 100 5% 1/4W	
				R1332	1-249-426-11	CARBON 5.6K 5% 1/4W	
				R1336	1-249-425-11	CARBON 4.7K 5% 1/4W	
				R1337	1-249-427-11	CARBON 6.8K 5% 1/4W	
				R1348	1-249-433-11	CARBON 22K 5% 1/4W	
				R1349	1-249-429-11	CARBON 10K 5% 1/4W	
				R1350	1-249-415-11	CARBON 680 5% 1/4W	

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B F


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1351	1-249-409-11	CARBON	220 5% 1/4W	C668	1-162-116-00	CERAMIC	680PF 10% 2KV
R1352	1-249-411-11	CARBON	330 5% 1/4W	C672	1-123-333-00	ELECT	100MF 20% 25V
R1353	1-249-405-11	CARBON	100 5% 1/4W	C673	1-102-129-00	CERAMIC	0.01MF 10% 50V
R1355	1-249-417-11	CARBON	1K 5% 1/4W	C674	1-124-126-00	ELECT	47MF 20% 16V
R1356	1-249-405-11	CARBON	100 5% 1/4W				
R1359	1-249-429-11	CARBON	10K 5% 1/4W			<DIODE>	
R1362	1-249-427-11	CARBON	6.8K 5% 1/4W	D601	Δ 8-719-305-07	DIODE RBV-406H	
R1364	1-249-405-11	CARBON	100 5% 1/4W	D602	8-719-911-55	DIODE U05G	
R1367	1-249-418-11	CARBON	1.2K 5% 1/4W	D603	8-719-911-55	DIODE U05G	
R1369	1-249-418-11	CARBON	1.2K 5% 1/4W	D604	8-719-911-19	DIODE 1SS119	
R1370	1-249-426-11	CARBON	5.6K 5% 1/4W	D605	8-719-911-55	DIODE U05G	
R1371	1-249-426-11	CARBON	5.6K 5% 1/4W	D607	8-719-911-19	DIODE 1SS119	
R1372	1-249-426-11	CARBON	5.6K 5% 1/4W	D651	8-719-911-19	DIODE 1SS119	
R1373	1-249-425-11	CARBON	4.7K 5% 1/4W	D652	8-719-300-33	DIODE RU-3AM	
R1374	1-249-405-11	CARBON	100 5% 1/4W	D653	8-719-311-31	DIODE RU-1P	
*****				D657	8-719-500-67	DIODE D5KC40H	
*A-1245-452-A	F BOARD, COMPLETE			D658	8-719-981-00	DIODE ERC81-004	
*****				D659	8-719-500-41	DIODE D8LCA20	
*1-506-348-99	PIN, CONNECTOR 3P			D660	1-808-592-11	DIODE RU4AM	
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					<FUSE>	
*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P			F601	Δ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V	
*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					<COIL>	
1-533-190-11	FUSE CLIP			FB655	1-410-397-21	FERRITE BEAD INDUCTOR	
*1-533-189-11	HOLDER, FUSE			FB658	1-410-396-41	FERRITE BEAD INDUCTOR	
*1-559-991-21	CONNECTOR ASSY 1P			FB659	1-410-397-21	FERRITE BEAD INDUCTOR	
*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			FB660	1-410-396-41	FERRITE BEAD INDUCTOR	
*1-564-505-11	PLUG, CONNECTOR 2P			FB662	1-410-397-21	FERRITE BEAD INDUCTOR	
*1-564-506-11	PLUG, CONNECTOR 3P			FB663	1-410-397-21	FERRITE BEAD INDUCTOR	
*1-564-508-11	PLUG, CONNECTOR 5P			FB664	1-410-397-21	FERRITE BEAD INDUCTOR	
*1-565-514-11	SOCKET, CONNECTOR 2P			L601	1-459-104-00	COIL, DUST CORE	
*1-568-378-21	PIN, CONNECTOR 3P			L657	1-459-155-00	COIL (WITH CORE) 45UH	
*4-341-752-01	EYELET (EY1, EY2, EY3, EY4, EY5, EY6, EY7)			L658	1-459-155-00	COIL (WITH CORE) 45UH	
				L659	1-459-407-00	COIL, FERRITE CHOKE	
						<IC>	
<CAPACITOR>				IC651	Δ 8-749-920-81	IC STR-S6301A	
C601	Δ 1-136-311-51	FILM	0.47MF 20% 125V		*4-363-404-00	HOLDER, IC; IC651	
C603	1-106-224-00	MYLAR	0.15MF 10% 100V		4-393-406-01	SHEET (R), RADIATION; IC651	
C604	1-101-821-00	CERAMIC	0.0022MF 500V	IC652	8-719-156-73	DIODE PS2501-1LB	
C605	Δ 1-162-576-51	CERAMIC	0.001MF 10% 400V	IC653	Δ 8-749-920-62	IC SE-135NS	
C606	Δ 1-161-953-51	CERAMIC	0.0047MF 20% 400V	IC654	Δ 8-749-920-61	IC SE-135N	
C607	1-162-599-12	CERAMIC	0.0047MF 20% 400V			<TRANSISTOR>	
C610	1-124-477-11	ELECT	47MF 20% 16V	Q602	8-729-255-12	TRANSISTOR 2SC2551-0	
C611	1-123-333-00	ELECT	100MF 20% 25V	Q603	8-729-200-17	TRANSISTOR 2SA1091-0	
C613	1-124-478-11	ELECT	100MF 20% 25V	Q604	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C616	1-136-311-11	FILM	0.47MF 20% 125V	Q651	Δ 8-729-177-43	TRANSISTOR 2SD774-4	
C617	1-101-821-00	CERAMIC	0.0022MF 500V	Q652	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C618	1-124-477-11	ELECT	47MF 20% 16V	Q653	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C622	1-125-538-11	ELECT (BLOCK)	1000MF 20% 200V	Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C650	1-161-830-00	CERAMIC	0.0047MF 500V			<RESISTOR>	
C651	1-124-799-11	ELECT	2.2MF 20% 160V	R601	Δ 1-202-723-51	SOLID	2.2M 10% 1/2W
C652	Δ 1-124-122-91	ELECT	100MF 20% 50V	R602	Δ 1-205-798-11	WIREWOUND	1.5 5% 20W F
C653	1-102-244-00	CERAMIC	220PF 10% 500V	R603	1-215-885-00	METAL OXIDE	68 5% 2W F
C654	1-124-126-00	ELECT	47MF 20% 25V				
C655	1-136-173-00	FILM	0.47MF 5% 50V				
C656	1-106-383-00	MYLAR	0.047MF 10% 100V				
C657	1-136-601-11	FILM	0.01MF 10% 630V				
C658	1-162-114-00	CERAMIC	0.0047MF 2KV				
C660	1-162-599-12	CERAMIC	0.0047MF 20% 400V				
C661	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C663	1-124-618-11	ELECT	2200MF 20% 35V				
C664	1-126-588-11	ELECT	1000MF 20% 16V				
C665	1-124-602-00	ELECT	2200MF 20% 25V				
C666	1-125-564-11	ELECT (BLOCK)	1000MF 20% 160V				
C667	1-102-129-00	CERAMIC	0.01MF 10% 50V				

F A


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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R605	Δ 1-202-723-51	SOLID	2.2M 10% 1/2W	*****			
R606	1-215-885-00	METAL OXIDE	68 5% 2W F				
R607	1-249-421-11	CARBON	2.2K 5% 1/4W		*A-1296-702-A	A BOARD, COMPLETE	
R608	1-247-887-00	CARBON	220K 5% 1/4W			*****	
R609	1-249-417-11	CARBON	1K 5% 1/4W				
R610	1-249-417-11	CARBON	1K 5% 1/4W		*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
R611	1-207-645-00	WIREWOUND	0.47 10% 3W F		*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
R612	1-249-417-11	CARBON	1K 5% 1/4W F		*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
R613	1-249-441-11	CARBON	100K 5% 1/4W		*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
R614	1-249-429-11	CARBON	10K 5% 1/4W		*1-564-505-11	PLUG, CONNECTOR 2P	
R615	1-247-895-00	CARBON	470K 5% 1/4W		*1-564-507-11	PLUG, CONNECTOR 4P	
R616	1-249-417-11	CARBON	1K 5% 1/4W		*1-564-508-11	PLUG, CONNECTOR 5P	
R617	1-249-414-11	CARBON	560 5% 1/4W		*1-564-509-11	PLUG, CONNECTOR 6P	
R619	Δ 1-216-341-51	METAL OXIDE	0.22 5% 1W F		*1-564-511-11	PLUG, CONNECTOR 8P	
R620	1-216-444-11	METAL OXIDE	82K 5% 1W F		*1-564-512-11	PLUG, CONNECTOR 9P	
R621	1-249-429-11	CARBON	10K 5% 1/4W		*1-564-513-11	PLUG, CONNECTOR 10P	
R622	1-249-423-11	CARBON	3.3K 5% 1/4W		*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P	
R623	1-216-457-00	METAL OXIDE	1.2K 5% 2W F		*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P	
R624	1-216-458-11	METAL OXIDE	1.8K 5% 2W F		*1-568-536-11	PLUG (MINIATURE DY) 6P	
R651	1-207-612-00	WIREWOUND	0.1 10% 2W F		*4-341-751-01	EYELET	
R652	1-207-612-00	WIREWOUND	0.1 10% 2W F		*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY20,EY21, EY22,EY23,EY24,EY25,EY26,EY27)	
R653	1-215-893-11	METAL OXIDE	1.5K 5% 2W F				
R654	1-205-945-11	WIREWOUND	33 10% 7W F				
	*4-341-751-01	EYELET; R654					
R655	1-202-843-11	SOLID	270K 10% 1/2W			<CONNECTOR>	
R660	Δ 1-249-414-51	CARBON	560 5% 1/4W F	A33	*1-564-511-11	PLUG, CONNECTOR 8P	
R661	1-249-413-11	CARBON	470 5% 1/4W				
R662	1-249-467-11	CARBON	68K 5% 1/4W F			<CAPACITOR>	
R663	1-247-706-11	CARBON	330 5% 1/4W F				
R664	1-249-425-11	CARBON	4.7K 5% 1/4W	C101	1-123-875-11	ELECT	10MF 20% 50V
R665	1-249-417-11	CARBON	1K 5% 1/4W	C102	1-126-233-11	ELECT	22MF 20% 25V
R666	1-249-425-11	CARBON	4.7K 5% 1/4W	C103	1-124-360-00	ELECT	1000MF 20% 16V
R667	1-249-417-11	CARBON	1K 5% 1/4W	C104	1-124-473-11	ELECT	1000MF 20% 10V
R668	1-249-429-11	CARBON	10K 5% 1/4W	C106	1-136-153-00	FILM	0.01MF 5% 50V
R669	1-249-417-11	CARBON	1K 5% 1/4W	C107	1-119-160-00	ELECT	470MF 10V
R670	1-249-427-11	CARBON	6.8K 5% 1/4W F	C108	1-123-875-11	ELECT	10MF 20% 50V
R671	1-202-730-00	SOLID	8.2M 10% 1/2W	C109	1-102-973-00	CERAMIC	100PF 5% 50V
R672	1-249-455-11	CARBON	4.7 5% 1/4W F	C111	1-102-978-00	CERAMIC	220PF 5% 50V
R675	1-215-881-11	METAL OXIDE	15 5% 2W F	C112	1-136-161-00	FILM	0.047MF 5% 50V
R676	1-216-446-00	METAL OXIDE	18 5% 2W F	C113	1-124-791-11	ELECT	1MF 20% 50V
R690	1-205-945-11	WIREWOUND	33 10% 7W F	C114	1-102-978-00	CERAMIC	220PF 5% 50V
	*4-341-751-01	EYELET; R690		C116	1-102-973-00	CERAMIC	100PF 5% 50V
R691	1-216-468-11	METAL OXIDE	82K 5% 2W F	C119	1-123-875-11	ELECT	10MF 20% 50V
R692	1-216-468-11	METAL OXIDE	82K 5% 2W F	C120	1-124-360-00	ELECT	1000MF 20% 16V
R693	1-216-468-11	METAL OXIDE	82K 5% 2W F	C121	1-136-165-00	FILM	0.1MF 5% 50V
R694	1-216-468-11	METAL OXIDE	82K 5% 2W F	C124	1-130-728-00	FILM	0.0022MF 5% 50V
R695	1-216-468-11	METAL OXIDE	82K 5% 2W F	C125	1-124-925-11	ELECT	2.2MF 20% 50V
R696	1-207-682-00	WIREWOUND	47 10% 5W F	C126	1-102-121-00	CERAMIC	0.0022MF 10% 50V
				C128	1-124-477-11	ELECT	47MF 20% 16V
				C129	1-136-173-00	FILM	0.47MF 5% 50V
				C199	1-124-477-11	ELECT	47MF 20% 16V
				C201	1-124-478-11	ELECT	100MF 20% 25V
				C202	1-102-121-00	CERAMIC	0.0022MF 10% 50V
				C203	1-102-121-00	CERAMIC	0.0022MF 10% 50V
				C301	1-126-103-11	ELECT	470MF 20% 16V
				C302	1-124-234-00	ELECT	22MF 20% 16V
				C303	1-136-153-00	FILM	0.01MF 5% 50V
				C304	1-124-791-11	ELECT	1MF 20% 50V
				C305	1-124-465-00	ELECT	0.47MF 20% 50V
				C306	1-124-234-00	ELECT	22MF 20% 16V
				C307	1-102-978-00	CERAMIC	220PF 5% 50V
				C308	1-102-965-00	CERAMIC	39PF 5% 50V
				C309	1-136-165-00	FILM	0.1MF 5% 50V
				C310	1-136-165-00	FILM	0.1MF 5% 50V
RY601	Δ 1-515-601-11	RELAY					
	</						

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7 A

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R114	1-249-421-11	CARBON	2.2K 5% 1/4W	R182	1-249-421-11	CARBON	2.2K 5% 1/4W
R115	1-249-421-11	CARBON	2.2K 5% 1/4W	R183	1-249-421-11	CARBON	2.2K 5% 1/4W
R116	1-249-409-11	CARBON	220 5% 1/4W	R184	1-249-417-11	CARBON	1K 5% 1/4W
R117	1-249-409-11	CARBON	220 5% 1/4W	R185	1-249-417-11	CARBON	1K 5% 1/4W
R118	1-249-409-11	CARBON	220 5% 1/4W	R186	1-249-433-11	CARBON	22K 5% 1/4W
R119	1-249-431-11	CARBON	15K 5% 1/4W	R187	1-249-421-11	CARBON	2.2K 5% 1/4W
R120	1-249-421-11	CARBON	2.2K 5% 1/4W	R188	1-249-425-11	CARBON	4.7K 5% 1/4W
R121	1-249-421-11	CARBON	2.2K 5% 1/4W	R189	1-249-433-11	CARBON	22K 5% 1/4W
R122	1-249-421-11	CARBON	2.2K 5% 1/4W	R190	1-249-421-11	CARBON	2.2K 5% 1/4W
R123	1-249-421-11	CARBON	2.2K 5% 1/4W	R191	1-249-421-11	CARBON	2.2K 5% 1/4W
R124	1-249-421-11	CARBON	2.2K 5% 1/4W	R192	1-249-421-11	CARBON	2.2K 5% 1/4W
R125	1-249-421-11	CARBON	2.2K 5% 1/4W	R193	1-249-421-11	CARBON	2.2K 5% 1/4W
R126	1-249-421-11	CARBON	2.2K 5% 1/4W	R194	1-249-417-11	CARBON	1K 5% 1/4W
R127	1-249-413-11	CARBON	470 5% 1/4W	R195	1-249-421-11	CARBON	2.2K 5% 1/4W
R128	1-249-425-11	CARBON	4.7K 5% 1/4W	R196	1-249-421-11	CARBON	2.2K 5% 1/4W
R129	1-249-425-11	CARBON	4.7K 5% 1/4W	R197	1-259-884-11	CARBON	4.7M 5% 1/4W
R130	1-249-437-11	CARBON	47K 5% 1/4W	R198	1-249-425-11	CARBON	4.7K 5% 1/4W
R131	1-249-429-11	CARBON	10K 5% 1/4W	R199	1-249-430-11	CARBON	12K 5% 1/4W
R132	1-249-421-11	CARBON	2.2K 5% 1/4W	R200	1-249-417-11	CARBON	1K 5% 1/4W
R133	1-249-421-11	CARBON	2.2K 5% 1/4W	R201	1-249-425-11	CARBON	4.7K 5% 1/4W
R134	1-249-421-11	CARBON	2.2K 5% 1/4W	R202	1-249-429-11	CARBON	10K 5% 1/4W
R135	1-249-429-11	CARBON	10K 5% 1/4W	R203	1-249-434-11	CARBON	27K 5% 1/4W
R136	1-249-429-11	CARBON	10K 5% 1/4W	R204	1-249-436-11	CARBON	39K 5% 1/4W
R137	1-249-409-11	CARBON	220 5% 1/4W	R205	1-249-411-11	CARBON	330 5% 1/4W
R138	1-249-425-11	CARBON	4.7K 5% 1/4W	R208	1-216-423-11	METAL OXIDE	27 5% 1W F
R139	1-249-421-11	CARBON	2.2K 5% 1/4W	R209	1-249-417-11	CARBON	1K 5% 1/4W
R140	1-249-439-11	CARBON	68K 5% 1/4W	R301	1-215-448-00	METAL	13K 1% 1/6W
R141	1-247-903-00	CARBON	1M 5% 1/4W	R304	1-249-432-11	CARBON	18K 5% 1/4W
R142	1-249-437-11	CARBON	47K 5% 1/4W	R305	1-247-899-11	CARBON	680K 5% 1/4W
R143	1-249-437-11	CARBON	47K 5% 1/4W	R306	1-215-421-00	METAL	1K 1% 1/6W
R144	1-215-896-00	METAL OXIDE	4.7K 5% 2W F	R307	1-249-405-11	CARBON	100 5% 1/4W
R145	1-249-429-11	CARBON	10K 5% 1/4W	R308	1-249-405-11	CARBON	100 5% 1/4W
R146	1-247-903-00	CARBON	1M 5% 1/4W	R309	1-249-405-11	CARBON	100 5% 1/4W
R147	1-249-429-11	CARBON	10K 5% 1/4W	R310	1-249-409-11	CARBON	220 5% 1/4W
R148	1-249-429-11	CARBON	10K 5% 1/4W	R311	1-249-409-11	CARBON	220 5% 1/4W
R149	1-215-896-00	METAL OXIDE	4.7K 5% 2W F	R312	1-249-409-11	CARBON	220 5% 1/4W
R150	1-249-441-11	CARBON	100K 5% 1/4W	R313	1-249-409-11	CARBON	220 5% 1/4W
R151	1-249-429-11	CARBON	10K 5% 1/4W	R314	1-249-409-11	CARBON	220 5% 1/4W
R152	1-249-425-11	CARBON	4.7K 5% 1/4W	R315	1-249-417-11	CARBON	1K 5% 1/4W
R153	1-249-429-11	CARBON	10K 5% 1/4W	R316	1-249-425-11	CARBON	4.7K 5% 1/4W
R154	1-249-429-11	CARBON	10K 5% 1/4W	R317	1-249-429-11	CARBON	10K 5% 1/4W
R156	1-249-409-11	CARBON	220 5% 1/4W	R320	1-249-429-11	CARBON	10K 5% 1/4W
R158	1-249-429-11	CARBON	10K 5% 1/4W	R321	1-249-441-11	CARBON	100K 5% 1/4W
R159	1-249-437-11	CARBON	47K 5% 1/4W	R322	1-249-428-11	CARBON	8.2K 5% 1/4W
R160	1-247-887-00	CARBON	220K 5% 1/4W	R323	1-215-457-00	METAL	33K 1% 1/6W
R161	1-249-409-11	CARBON	220 5% 1/4W	R324	1-249-405-11	CARBON	100 5% 1/4W
R162	1-249-409-11	CARBON	220 5% 1/4W	R325	1-249-414-11	CARBON	560 5% 1/4W
R163	1-249-421-11	CARBON	2.2K 5% 1/4W	R326	1-249-421-11	CARBON	2.2K 5% 1/4W
R164	1-249-409-11	CARBON	220 5% 1/4W	R327	1-249-417-11	CARBON	1K 5% 1/4W
R165	1-249-409-11	CARBON	220 5% 1/4W	R328	1-249-413-11	CARBON	470 5% 1/4W
R166	1-249-409-11	CARBON	220 5% 1/4W	R329	1-249-425-11	CARBON	4.7K 5% 1/4W
R167	1-249-429-11	CARBON	10K 5% 1/4W	R330	1-249-421-11	CARBON	2.2K 5% 1/4W
R168	1-249-429-11	CARBON	10K 5% 1/4W	R332	1-247-895-00	CARBON	470K 5% 1/4W
R169	1-249-429-11	CARBON	10K 5% 1/4W	R333	1-249-409-11	CARBON	220 5% 1/4W
R170	1-249-429-11	CARBON	10K 5% 1/4W	R334	1-249-420-11	CARBON	1.8K 5% 1/4W
R171	1-249-421-11	CARBON	2.2K 5% 1/4W	R336	1-249-405-11	CARBON	100 5% 1/4W
R172	1-249-429-11	CARBON	10K 5% 1/4W	R337	1-249-438-11	CARBON	56K 5% 1/4W
R173	1-249-421-11	CARBON	2.2K 5% 1/4W	R339	1-249-411-11	CARBON	330 5% 1/4W
R174	1-249-421-11	CARBON	2.2K 5% 1/4W	R340	1-249-405-11	CARBON	100 5% 1/4W
R175	1-249-421-11	CARBON	2.2K 5% 1/4W	R341	1-249-405-11	CARBON	100 5% 1/4W
R176	1-249-421-11	CARBON	2.2K 5% 1/4W	R342	1-249-405-11	CARBON	100 5% 1/4W
R177	1-249-409-11	CARBON	220 5% 1/4W	R343	1-249-405-11	CARBON	100 5% 1/4W
R178	1-249-417-11	CARBON	1K 5% 1/4W	R344	1-249-405-11	CARBON	100 5% 1/4W
R179	1-249-417-11	CARBON	1K 5% 1/4W				
R181	1-249-417-11	CARBON	1K 5% 1/4W				

- The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

70

The components identified by shading and mark **A** are critical for safety.
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Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

A **X1** **C**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>				<DIODE>			
T500	A 1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)		D251	8-719-110-48	DIODE RD18ES-B1	
T501	A 1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE		D252	8-719-110-48	DIODE RD18ES-B1	
<TUNER>				D253	8-719-110-48	DIODE RD18ES-B1	
TU101A	A 1-463-771-11	TUNER, ET (BTP=201A)		D270	8-719-109-90	DIODE RD5.6ES-B3	
<CRYSTAL>				D271	8-719-911-19	DIODE 1SS119	
X101	1-577-082-11	VIBRATOR, CERAMIC		<IC>			
X301	1-567-505-11	OSCILLATOR, CRYSTAL		IC251	8-752-037-24	IC CXA1264AS	
*****				<TRANSISTOR>			
*1-635-250-11	X1 BOARD	*****		Q270	8-729-119-76	TRANSISTOR 2SA1175-HFE	
*1-568-380-21	PIN, CONNECTOR 15P			Q271	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<CAPACITOR>				Q272	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C251	1-124-791-11	ELECT	1MF 20% 50V	Q273	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C252	1-136-157-00	FILM	0.022MF 5% 50V	Q280	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C253	1-124-791-11	ELECT	1MF 20% 50V	Q281	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C254	1-130-309-00	FILM	0.033MF 5% 100V	<RESISTOR>			
C255	1-124-791-11	ELECT	1MF 20% 50V	R251	1-215-443-00	METAL	8.2K 1% 1/6W
C256	1-124-478-11	ELECT	100MF 20% 25V	R252	1-215-443-00	METAL	8.2K 1% 1/6W
C257	1-124-927-11	ELECT	4.7MF 20% 50V	R253	1-249-409-11	CARBON	220 5% 1/4W
C258	1-124-902-00	ELECT	0.47MF 20% 50V	R254	1-249-409-11	CARBON	220 5% 1/4W
C259	1-124-791-11	ELECT	1MF 20% 50V	R255	1-249-420-11	CARBON	1.8K 5% 1/4W
C260	1-124-791-11	ELECT	1MF 20% 50V	R256	1-249-405-11	CARBON	100 5% 1/4W
C261	1-131-347-00	TANTALUM	1MF 20% 16V	R257	1-215-445-00	METAL	10K 1% 1/6W
C262	1-124-791-11	ELECT	1MF 20% 50V	R258	1-215-445-00	METAL	10K 1% 1/6W
C263	1-124-791-11	ELECT	1MF 20% 50V	R259	1-249-409-11	CARBON	220 5% 1/4W
C264	1-123-875-11	ELECT	10MF 20% 50V	R260	1-249-409-11	CARBON	220 5% 1/4W
C265	1-136-170-00	FILM	0.27MF 5% 50V	R261	1-249-409-11	CARBON	220 5% 1/4W
C266	1-123-875-11	ELECT	10MF 20% 50V	R262	1-249-409-11	CARBON	220 5% 1/4W
C267	1-131-368-00	TANTALUM	3.3MF 10% 16V	R266	1-215-456-00	METAL	30K 1% 1/6W
C268	1-124-791-11	ELECT	1MF 20% 50V	R270	1-249-428-11	CARBON	8.2K 5% 1/4W
C269	1-131-347-00	TANTALUM	1MF 20% 16V	R271	1-249-428-11	CARBON	8.2K 5% 1/4W
C270	1-124-791-11	ELECT	1MF 20% 50V	R272	1-215-455-00	METAL	27K 1% 1/6W
C271	1-123-875-11	ELECT	10MF 20% 50V	R273	1-215-455-00	METAL	27K 1% 1/6W
C272	1-124-791-11	ELECT	1MF 20% 50V	R274	1-249-417-11	CARBON	1K 5% 1/4W
C273	1-124-477-11	ELECT	47MF 20% 16V	R275	1-249-417-11	CARBON	1K 5% 1/4W
C274	1-130-475-00	MYLAR	0.0022MF 5% 50V	R276	1-249-405-11	CARBON	100 5% 1/4W
C275	1-130-475-00	MYLAR	0.0022MF 5% 50V	R277	1-249-405-11	CARBON	100 5% 1/4W
C276	1-102-074-00	CERAMIC	0.001MF 10% 50V	R278	1-249-429-11	CARBON	10K 5% 1/4W
C277	1-123-875-11	ELECT	10MF 20% 50V	R279	1-249-429-11	CARBON	10K 5% 1/4W
C278	1-124-791-11	ELECT	1MF 20% 50V	R280	1-249-420-11	CARBON	1.8K 5% 1/4W
C280	1-123-875-11	ELECT	10MF 20% 50V	R281	1-249-428-11	CARBON	8.2K 5% 1/4W
C281	1-123-875-11	ELECT	10MF 20% 50V	R282	1-249-429-11	CARBON	10K 5% 1/4W
C282	1-124-927-11	ELECT	4.7MF 20% 50V	R283	1-249-429-11	CARBON	10K 5% 1/4W
C284	1-124-927-11	ELECT	4.7MF 20% 50V	R284	1-249-441-11	CARBON	100K 5% 1/4W
C285	1-136-171-00	FILM	0.33MF 5% 50V	R285	1-247-903-00	CARBON	1M 5% 1/4W
C286	1-136-175-00	FILM	0.68MF 5% 50V	R286	1-249-393-11	CARBON	10 5% 1/4W
C290	1-123-875-11	ELECT	10MF 20% 50V	R290	1-215-441-00	METAL	6.8K 1% 1/6W
C291	1-123-875-11	ELECT	10MF 20% 50V	R291	1-215-441-00	METAL	6.8K 1% 1/6W
C292	1-123-875-11	ELECT	10MF 20% 50V	R292	1-249-433-11	CARBON	22K 5% 1/4W
C293	1-126-233-11	ELECT	22MF 20% 50V	R293	1-249-433-11	CARBON	22K 5% 1/4W
C294	1-123-875-11	ELECT	10MF 20% 50V	R294	1-249-433-11	CARBON	22K 5% 1/4W
C295	1-101-055-00	CERAMIC	0.022MF 50V	R295	1-249-433-11	CARBON	22K 5% 1/4W
C296	1-101-055-00	CERAMIC	0.022MF 50V	*****			
				*A-1330-949-A	C BOARD, COMPLETE	*****	
				*1-506-348-99	PIN, CONNECTOR 3P		
				*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		

C

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specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*1-564-511-11	PLUG, CONNECTOR 8P		Q705	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
	*4-379-160-01	COVER (REAR LID), CV		Q706	8-729-200-17	TRANSISTOR 2SA1091-0	
	*4-379-167-01	COVER (MAIN), CV		Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
<CAPACITOR>				Q708	8-729-326-11	TRANSISTOR 2SC2611	
C701	1-162-116-00	CERAMIC 680PF	10% 2KV	Q709	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C702	1-136-601-11	FILM 0.01MF	5% 630V	Q710	8-729-255-12	TRANSISTOR 2SC2551-0	
C703	1-123-875-11	ELECT 10MF	20% 50V	Q711	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C704	1-123-946-00	ELECT 4.7MF	20% 250V	Q712	8-729-255-12	TRANSISTOR 2SC2551-0	
C705	1-101-821-00	CERAMIC 0.0022MF	500V	Q713	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C707	1-102-116-00	CERAMIC 680PF	10% 50V	Q714	8-729-200-17	TRANSISTOR 2SA1091-0	
C708	1-102-116-00	CERAMIC 680PF	10% 50V	Q715	8-729-200-17	TRANSISTOR 2SA1091-0	
C709	1-102-116-00	CERAMIC 680PF	10% 50V	Q716	8-729-200-17	TRANSISTOR 2SA1091-0	
C710	1-102-117-00	CERAMIC 820PF	10% 50V	<RESISTOR>			
C711	1-126-233-11	ELECT 22MF	20% 25V	R701	1-216-392-11	METAL OXIDE 1.8 5% 3W F	
C712	1-102-116-00	CERAMIC 680PF	10% 50V	R702	1-202-848-00	SOLID 680K 10% 1/2W	
C713	1-102-117-00	CERAMIC 820PF	10% 50V	R703	1-202-815-11	SOLID 47K 10% 1/2W	
C714	1-162-622-11	CERAMIC 330PF	10% 6.3KV	R704	1-202-846-00	SOLID 470K 10% 1/2W	
C715	1-102-074-00	CERAMIC 0.001MF	10% 50V	R705	1-202-549-00	SOLID 100 10% 1/2W	
C718	1-102-074-00	CERAMIC 0.001MF	10% 50V	R706	1-202-838-00	SOLID 100K 10% 1/2W	
C719	1-126-233-11	ELECT 22MF	20% 25V	R707	1-202-842-11	SOLID 220K 10% 1/2W	
C720	1-126-233-11	ELECT 22MF	20% 25V	R708	1-202-818-00	SOLID 1K 10% 1/2W	
C721	1-102-074-00	CERAMIC 0.001MF	10% 50V	R709	1-202-818-00	SOLID 1K 10% 1/2W	
C730	1-102-116-00	CERAMIC 680PF	10% 50V	R710	1-202-818-00	SOLID 1K 10% 1/2W	
C731	1-102-116-00	CERAMIC 680PF	10% 50V	R711	1-202-837-00	SOLID 82K 10% 1/2W	
C732	1-102-116-00	CERAMIC 680PF	10% 50V	R712	1-202-842-11	SOLID 220K 10% 1/2W	
<DIODE>				R713	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
D701	8-719-911-19	DIODE 1SS119		R714	1-249-409-11	CARBON 220 5% 1/4W	
D702	8-719-911-19	DIODE 1SS119		R715	1-202-818-00	SOLID 1K 10% 1/2W	
D703	8-719-911-19	DIODE 1SS119		R716	Δ 1-216-486-51	METAL OXIDE 8.2K 5% 3W F	
D704	8-719-911-19	DIODE 1SS119		R717	1-249-409-11	CARBON 220 5% 1/4W	
D705	8-719-911-19	DIODE 1SS119		R718	1-249-409-11	CARBON 220 5% 1/4W	
D706	8-719-911-19	DIODE 1SS119		R720	Δ 1-216-486-51	METAL OXIDE 8.2K 5% 3W F	
D707	8-719-911-19	DIODE 1SS119		R721	1-202-842-11	SOLID 220K 10% 1/2W	
D708	8-719-911-19	DIODE 1SS119		R723	1-249-405-11	CARBON 100 5% 1/4W	
D709	8-719-911-19	DIODE 1SS119		R724	1-249-405-11	CARBON 100 5% 1/4W	
D710	8-719-901-83	DIODE 1SS83		R725	1-249-429-11	CARBON 10K 5% 1/4W	
D711	8-719-901-83	DIODE 1SS83		R726	1-249-407-11	CARBON 150 5% 1/4W	
D712	8-719-901-83	DIODE 1SS83		R727	1-249-429-11	CARBON 10K 5% 1/4W	
D713	8-719-901-83	DIODE 1SS83		R728	1-249-407-11	CARBON 150 5% 1/4W	
<JACK>				R729	1-249-405-11	CARBON 100 5% 1/4W	
J701	1-540-071-11	SOCKET, PICTURE TUBE		R730	1-249-407-11	CARBON 150 5% 1/4W	
<COIL>				R731	1-247-704-11	CARBON 220 5% 1/4W F	
L701	Δ 1-408-417-31	INDUCTOR 47UH		R732	1-247-704-11	CARBON 220 5% 1/4W F	
L702	1-408-421-00	INDUCTOR 100UH		R733	1-247-704-11	CARBON 220 5% 1/4W F	
L703	1-408-420-00	INDUCTOR 82UH		R739	1-249-433-11	CARBON 22K 5% 1/4W	
L704	1-408-410-00	INDUCTOR 12UH		R740	1-215-902-11	METAL OXIDE 47K 5% 2W F	
L705	1-408-411-00	INDUCTOR 15UH		R741	1-249-417-11	CARBON 1K 5% 1/4W F	
L706	1-408-421-00	INDUCTOR 100UH		R742	1-249-429-11	CARBON 10K 5% 1/4W F	
L707	1-408-411-00	INDUCTOR 15UH		R743	1-249-429-11	CARBON 10K 5% 1/4W F	
<TRANSISTOR>				R744	1-247-725-11	CARBON 10K 5% 1/4W F	
Q701	8-729-326-11	TRANSISTOR 2SC2611		R745	1-247-713-11	CARBON 1K 5% 1/4W F	
Q702	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R746	1-215-902-11	METAL OXIDE 47K 5% 1W F	
Q703	8-729-200-17	TRANSISTOR 2SA1091-0		R747	1-247-725-11	CARBON 10K 5% 1/4W F	
Q704	8-729-326-11	TRANSISTOR 2SC2611		R749	1-249-437-11	CARBON 47K 5% 1/4W	
				R750	1-249-409-11	CARBON 220 5% 1/4W	
				R751	1-249-397-11	CARBON 22 5% 1/4W	
				R752	1-249-397-11	CARBON 22 5% 1/4W	
				R753	1-249-397-11	CARBON 22 5% 1/4W	
				R754	1-249-429-11	CARBON 10K 5% 1/4W	
				R755	1-249-411-11	CARBON 330 5% 1/4W	
				R757	1-249-425-11	CARBON 4.7K 5% 1/4W	

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H6

K

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R777	1-249-441-11	CARBON 100K 5% 1/4W		C2453	1-126-096-11	ELECT 10MF 20% 35V	
<VARIABLE RESISTOR>				C2454	1-123-875-11	ELECT 10MF 20% 50V	
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		C2457	1-124-925-11	ELECT 2.2MF 20% 50V	
RV702 Δ	1-230-619-11	RES, ADJ, METAL GLAZE 110M		C2458	1-124-618-11	ELECT 2200MF 20% 35V	
*****				C2461	1-124-925-11	ELECT 2.2MF 20% 50V	
*1-633-330-11	H6 BOARD			C2462	1-126-233-11	ELECT 22MF 20% 25V	
	*****			C2466	1-124-925-11	ELECT 2.2MF 20% 50V	
*1-564-524-11	PLUG, CONNECTOR 9P			C2469	1-124-925-11	ELECT 2.2MF 20% 50V	
*1-564-525-11	PLUG, CONNECTOR 10P			C2470	1-126-233-11	ELECT 22MF 20% 50V	
*4-374-987-01	GUIDE, LIGHT			C2471	1-124-791-11	ELECT 1MF 20% 50V	
*4-381-686-01	BRACKET (B), LIGHT GUIDE			C2472	1-124-618-11	ELECT 2200MF 20% 35V	
<CAPACITOR>				C2473	1-124-484-11	ELECT 220MF 20% 35V	
C52	1-126-160-11	ELECT 1MF 20% 50V		C2474	1-124-484-11	ELECT 220MF 20% 35V	
C53	1-124-465-00	ELECT 0.47MF 20% 50V		C2475	1-136-165-00	FILM 0.1MF 5% 50V	
C55	1-102-114-00	CERAMIC 470PF 10% 50V		C2476	1-136-165-00	FILM 0.1MF 5% 50V	
<DIODE>				C2477	1-124-618-11	ELECT 2200MF 20% 35V	
D1	8-719-911-19	DIODE 1SS119		C2478	1-124-122-11	ELECT 100MF 20% 50V	
D4	8-719-911-19	DIODE 1SS119		C2479	1-124-791-11	ELECT 1MF 20% 50V	
D5	8-719-911-19	DIODE 1SS119		C2480	1-124-484-11	ELECT 220MF 20% 35V	
D7	8-719-911-19	DIODE 1SS119		C2481	1-124-484-11	ELECT 220MF 20% 35V	
D8	8-719-911-19	DIODE 1SS119		C2482	1-124-618-11	ELECT 2200MF 20% 35V	
D9	8-719-911-19	DIODE 1SS119		C2483	1-124-618-11	ELECT 2200MF 20% 35V	
D52	8-719-812-41	DIODE TLR124		C2484	1-136-165-00	FILM 0.1MF 5% 50V	
*4-374-906-01	HOLDER (TV/V), LED; D52			C2485	1-136-165-00	FILM 0.1MF 5% 50V	
D53	8-719-812-41	DIODE TLR124		C2486	1-124-925-11	ELECT 2.2MF 20% 50V	
*4-374-906-01	HOLDER (TV/V), LED; D53			<DIODE>			
D54	8-719-911-19	DIODE 1SS119		D2451	8-719-911-19	DIODE 1SS119	
<IC>				D2452	8-719-911-19	DIODE 1SS119	
IC51	8-749-920-65	IC KEY-COOSV		D2499	8-719-110-52	DIODE RD20ES-81	
<RESISTOR>				<IC>			
R53	1-249-409-11	CARBON 220 5% 1/4W		IC2451 Δ	8-759-980-43	IC TDA2009A	
R54	1-249-437-11	CARBON 47K 5% 1/4W		IC2452 Δ	8-759-980-43	IC TDA2009A	
<SWITCH>				<IC LINK>			
S51	Δ 1-571-532-22	SWITCH, TACTIL		PS2401	1-532-984-11	LINK, IC	
*****				PS2402	1-532-686-21	LINK, IC	
*A-1385-070-A	K BOARD, COMPLETE			<TRANSISTOR>			
	*****			Q2451	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			Q2452	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			Q2455	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
*1-560-278-51	PLUG, CONNECTOR 7P			Q2456	8-729-119-76	TRANSISTOR 2SA1175-HFE	
*1-565-494-11	CONNECTOR, BOARD TO BOARD 18P			Q2457	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
*4-341-752-01	EYELET (EY2451, EY2452, EY2453, EY2454, EY2455, EY2456, EY2457, EY2458)			Q2458	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<CAPACITOR>				<RESISTOR>			
C2451	1-124-257-00	ELECT 2.2MF 20% 50V		R2422	1-214-737-00	METAL 2.2K 1% 1/4W	
C2452	1-124-925-11	ELECT 2.2MF 20% 50V		R2423	1-215-429-00	METAL 2.2K 1% 1/6W	
				R2424	1-215-419-00	METAL 820 1% 1/6W	
				R2425	1-215-419-00	METAL 820 1% 1/6W	
				R2426	1-215-411-00	METAL 390 1% 1/6W	
				R2427	1-215-411-00	METAL 390 1% 1/6W	
				R2439	1-249-441-11	CARBON 100K 5% 1/4W	
				R2440	1-249-413-11	CARBON 470 5% 1/4W	
				R2441	1-249-435-11	CARBON 33K 5% 1/4W	
				R2442	1-249-441-11	CARBON 100K 5% 1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C491	1-124-477-11	ELECT 47MF	20% 16V	Q411	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C492	1-126-233-11	ELECT 22MF	20% 25V	Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C493	1-124-477-11	ELECT 47MF	20% 16V	Q413	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C495	1-102-973-00	CERAMIC 100PF	5% 50V	Q414	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C1402	1-124-589-11	ELECT 47MF	20% 16V	Q415	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1403	1-124-589-11	ELECT 47MF	20% 16V	Q416	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1404	1-124-234-00	ELECT 22MF	20% 16V	Q491	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1405	1-124-477-11	ELECT 47MF	20% 16V	Q492	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1406	1-101-004-00	CERAMIC 0.01MF	50V	Q1401	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1407	1-102-106-00	CERAMIC 100PF	10% 50V	Q1402	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<DIODE>				Q1403	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D401	8-719-109-97	DIODE RD6.8ES-B2		Q1404	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D402	8-719-109-97	DIODE RD6.8ES-B2		Q1405	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D403	8-719-109-97	DIODE RD6.8ES-B2		Q1406	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D404	8-719-109-97	DIODE RD6.8ES-B2		<RESISTOR>			
D408	8-719-109-97	DIODE RD6.8ES-B2		R401	1-247-804-11	CARBON 75 5%	1/4W
D409	8-719-109-97	DIODE RD6.8ES-B2		R402	1-247-804-11	CARBON 75 5%	1/4W
D410	8-719-109-97	DIODE RD6.8ES-B2		R403	1-249-434-11	CARBON 27K 5%	1/4W
D411	8-719-109-97	DIODE RD6.8ES-B2		R404	1-247-885-00	CARBON 180K 5%	1/4W
D412	8-719-109-97	DIODE RD6.8ES-B2		R405	1-247-885-00	CARBON 180K 5%	1/4W
D413	8-719-109-97	DIODE RD6.8ES-B2		R406	1-249-434-11	CARBON 27K 5%	1/4W
D414	8-719-109-97	DIODE RD6.8ES-B2		R407	1-247-804-11	CARBON 75 5%	1/4W
D415	8-719-110-17	DIODE RD10ES-B2		R408	1-247-804-11	CARBON 75 5%	1/4W
D416	8-719-110-17	DIODE RD10ES-B2		R409	1-249-434-11	CARBON 27K 5%	1/4W
D417	8-719-110-17	DIODE RD10ES-B2		R410	1-247-885-00	CARBON 180K 5%	1/4W
D418	8-719-911-19	DIODE 1SS119		R411	1-247-804-11	CARBON 75 5%	1/4W
D419	8-719-911-19	DIODE 1SS119		R412	1-247-804-11	CARBON 75 5%	1/4W
D421	8-719-109-97	DIODE RD6.8ES-B2		R413	1-249-434-11	CARBON 27K 5%	1/4W
D422	8-719-109-97	DIODE RD6.8ES-B2		R414	1-247-885-00	CARBON 180K 5%	1/4W
D423	8-719-109-97	DIODE RD6.8ES-B2		R415	1-249-434-11	CARBON 27K 5%	1/4W
<IC>				R416	1-247-885-00	CARBON 180K 5%	1/4W
IC405	8-759-710-69	IC NJM2233BS		R417	1-247-895-00	CARBON 470K 5%	1/4W
IC442	8-752-034-95	IC CXA1314P		R418	1-249-417-11	CARBON 1K 5%	1/4W
IC443	8-752-036-60	IC CXA1414P		R419	1-247-895-00	CARBON 470K 5%	1/4W
IC444	8-752-032-27	IC CXA1114P		R420	1-249-417-11	CARBON 1K 5%	1/4W
IC1401	8-759-710-69	IC NJM2233BS		R421	1-247-804-11	CARBON 75 5%	1/4W
<JACK>				R422	1-247-895-00	CARBON 470K 5%	1/4W
J401	1-565-931-11	TERMINAL BLOCK, S 3P		R423	1-247-895-00	CARBON 470K 5%	1/4W
J402	1-565-932-11	TERMINAL BLOCK, S 6P		R424	1-247-895-00	CARBON 470K 5%	1/4W
J403	1-565-931-11	TERMINAL BLOCK, S 3P		R425	1-247-895-00	CARBON 470K 5%	1/4W
J404	1-565-838-11	PIN JACK BLOCK 2P		R426	1-249-424-11	CARBON 3.9K 5%	1/4W
<COIL>				R427	1-247-895-00	CARBON 470K 5%	1/4W
L401	1-408-412-00	INDUCTOR 18UH		R428	1-249-424-11	CARBON 3.9K 5%	1/4W
L404	1-410-663-31	INDUCTOR 10UH		R429	1-249-434-11	CARBON 27K 5%	1/4W
L1401	1-408-412-00	INDUCTOR 18UH		R430	1-247-804-11	CARBON 75 5%	1/4W
<TRANSISTOR>				R431	1-247-804-11	CARBON 75 5%	1/4W
Q401	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R432	1-249-405-11	CARBON 100 5%	1/4W
Q402	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R433	1-249-413-11	CARBON 470 5%	1/4W
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE		R434	1-249-409-11	CARBON 220 5%	1/4W
Q404	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R435	1-249-403-11	CARBON 68 5%	1/4W
Q405	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R436	1-249-425-11	CARBON 4.7K 5%	1/4W
Q406	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R437	1-247-885-00	CARBON 180K 5%	1/4W
Q407	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R438	1-249-405-11	CARBON 100 5%	1/4W
Q408	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R439	1-249-413-11	CARBON 470 5%	1/4W
Q409	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R440	1-249-417-11	CARBON 1K 5%	1/4W
Q410	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R441	1-249-409-11	CARBON 220 5%	1/4W
				R445	1-249-409-11	CARBON 220 5%	1/4W
				R446	1-249-409-11	CARBON 220 5%	1/4W
				R447	1-249-409-11	CARBON 220 5%	1/4W
				R448	1-249-409-11	CARBON 220 5%	1/4W
				R449	1-249-413-11	CARBON 470 5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R450	1-249-409-11	CARBON	220 5% 1/4W	R1420	1-249-413-11	CARBON	470 5% 1/4W
R451	1-249-421-11	CARBON	2.2K 5% 1/4W	R1421	1-249-413-11	CARBON	470 5% 1/4W
R452	1-249-433-11	CARBON	22K 5% 1/4W	R1422	1-249-405-11	CARBON	100 5% 1/4W
R453	1-249-421-11	CARBON	2.2K 5% 1/4W	R1423	1-249-441-11	CARBON	100K 5% 1/4W
R454	1-249-433-11	CARBON	22K 5% 1/4W	R1424	1-249-429-11	CARBON	10K 5% 1/4W
R455	1-249-421-11	CARBON	2.2K 5% 1/4W	R1425	1-249-429-11	CARBON	10K 5% 1/4W
R456	1-249-433-11	CARBON	22K 5% 1/4W	R1427	1-249-429-11	CARBON	10K 5% 1/4W
R457	1-249-405-11	CARBON	100 5% 1/4W	<SWITCH>			
R458	1-249-405-11	CARBON	100 5% 1/4W	S401	1-571-729-11	SWITCH, SLIDE	
R459	1-249-417-11	CARBON	1K 5% 1/4W	S402	1-554-303-21	SWITCH, KEY BOARD	
R460	1-249-405-11	CARBON	100 5% 1/4W	*****			
R461	1-249-417-11	CARBON	1K 5% 1/4W	*A-1394-223-A	T BOARD, COMPLETE		
R462	1-249-417-11	CARBON	1K 5% 1/4W	*****			
R463	1-249-405-11	CARBON	100 5% 1/4W	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		
R464	1-249-409-11	CARBON	220 5% 1/4W	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		
R465	1-249-417-11	CARBON	1K 5% 1/4W	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
R466	1-249-405-11	CARBON	100 5% 1/4W	*1-564-505-11	PLUG, CONNECTOR 2P		
R467	1-249-405-11	CARBON	100 5% 1/4W	*1-564-506-11	PLUG, CONNECTOR 3P		
R468	1-249-433-11	CARBON	22K 5% 1/4W	*1-564-507-11	PLUG, CONNECTOR 4P		
R469	1-249-433-11	CARBON	22K 5% 1/4W	*1-564-508-11	PLUG, CONNECTOR 5P		
R470	1-249-403-11	CARBON	68 5% 1/4W	<CAPACITOR>			
R471	1-249-403-11	CARBON	68 5% 1/4W	C7001	1-130-471-00	MYLAR	0.001MF 5% 50V
R472	1-249-403-11	CARBON	68 5% 1/4W	C7002	1-130-471-00	MYLAR	0.001MF 5% 50V
R473	1-249-409-11	CARBON	220 5% 1/4W	C7003	1-136-161-00	FILM	0.047MF 5% 50V
R474	1-249-405-11	CARBON	100 5% 1/4W	C7004	1-123-875-11	ELECT	10MF 20% 50V
R475	1-249-417-11	CARBON	1K 5% 1/4W	C7005	1-102-965-00	CERAMIC	39PF 5% 50V
R476	1-249-433-11	CARBON	22K 5% 1/4W	C7006	1-130-471-00	MYLAR	0.001MF 5% 50V
R477	1-249-433-11	CARBON	22K 5% 1/4W	C7007	1-136-153-00	FILM	0.01MF 5% 50V
R478	1-249-429-11	CARBON	10K 5% 1/4W	C7009	1-124-791-11	ELECT	1MF 20% 50V
R479	1-249-433-11	CARBON	22K 5% 1/4W	C7010	1-130-477-00	MYLAR	0.0033MF 5% 50V
R480	1-249-433-11	CARBON	22K 5% 1/4W	C7012	1-102-965-00	CERAMIC	39PF 5% 50V
R481	1-249-433-11	CARBON	22K 5% 1/4W	C7013	1-102-978-00	CERAMIC	220PF 5% 50V
R483	1-249-417-11	CARBON	1K 5% 1/4W	C7014	1-102-824-00	CERAMIC	470PF 5% 50V
R484	1-215-455-00	METAL	27K 1% 1/6W	C7015	1-124-463-00	ELECT	0.1MF 20% 50V
R485	1-215-475-00	METAL	180K 1% 1/6W	C7016	1-124-657-00	ELECT	10MF 20% 50V
R486	1-215-455-00	METAL	27K 1% 1/6W	C7017	1-102-129-00	CERAMIC	0.01MF 10% 50V
R487	1-215-475-00	METAL	180K 1% 1/6W	C7018	1-124-477-11	ELECT	47MF 20% 16V
R488	1-249-433-11	CARBON	22K 5% 1/4W	C7019	1-124-477-11	ELECT	47MF 20% 16V
R489	1-249-433-11	CARBON	22K 5% 1/4W	C7021	1-124-477-11	ELECT	47MF 20% 16V
R490	1-249-417-11	CARBON	1K 5% 1/4W	C7022	1-130-471-00	MYLAR	0.001MF 5% 50V
R491	1-249-417-11	CARBON	1K 5% 1/4W	C7024	1-101-005-00	CERAMIC	0.022MF 50V
R492	1-249-417-11	CARBON	1K 5% 1/4W	C7027	1-124-477-11	ELECT	47MF 20% 16V
R493	1-249-431-11	CARBON	15K 5% 1/4W	C7028	1-130-479-00	MYLAR	0.0047MF 5% 50V
R494	1-249-429-11	CARBON	10K 5% 1/4W	C7029	1-123-875-11	ELECT	10MF 20% 50V
R495	1-249-417-11	CARBON	1K 5% 1/4W	C7030	1-130-471-00	MYLAR	0.001MF 5% 50V
R496	1-249-425-11	CARBON	4.7K 5% 1/4W	C7031	1-101-888-00	CERAMIC	68PF 5% 50V
R497	1-249-417-11	CARBON	1K 5% 1/4W	C7032	1-136-153-00	FILM	0.01MF 5% 50V
R498	1-249-417-11	CARBON	1K 5% 1/4W	C7033	1-102-074-00	CERAMIC	0.001MF 10% 50V
R1401	1-249-405-11	CARBON	100 5% 1/4W	C7034	1-102-978-00	CERAMIC	220PF 5% 50V
R1402	1-249-405-11	CARBON	100 5% 1/4W	C7035	1-136-157-00	FILM	0.022MF 5% 50V
R1403	1-249-417-11	CARBON	1K 5% 1/4W	C7036	1-124-791-11	ELECT	1MF 20% 50V
R1404	1-249-417-11	CARBON	1K 5% 1/4W	C7037	1-123-875-11	ELECT	10MF 20% 50V
R1405	1-249-431-11	CARBON	15K 5% 1/4W	C7039	1-126-157-11	ELECT	10MF 20% 16V
R1406	1-249-417-11	CARBON	1K 5% 1/4W	C7057	1-102-978-00	CERAMIC	220PF 5% 50V
R1407	1-249-425-11	CARBON	4.7K 5% 1/4W	C7070	1-124-925-11	ELECT	2.2MF 20% 50V
R1408	1-249-429-11	CARBON	10K 5% 1/4W	C7071	1-102-978-00	CERAMIC	220PF 5% 50V
R1409	1-249-417-11	CARBON	1K 5% 1/4W	C7072	1-124-477-11	ELECT	47MF 20% 16V
R1410	1-249-417-11	CARBON	1K 5% 1/4W				
R1411	1-249-417-11	CARBON	1K 5% 1/4W				
R1412	1-249-405-11	CARBON	100 5% 1/4W				
R1415	1-249-417-11	CARBON	1K 5% 1/4W				
R1416	1-249-405-11	CARBON	100 5% 1/4W				
R1417	1-249-409-11	CARBON	220 5% 1/4W				
R1418	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1419	1-249-417-11	CARBON	1K 5% 1/4W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C7073	1-101-004-00	CERAMIC	0.01MF	50V	Q7013	8-729-423-37	TRANSISTOR 2SC3311A-QRS
C7074	1-124-463-00	ELECT	0.1MF	20%	Q7014	8-729-119-76	TRANSISTOR 2SA1175-HFE
C7075	1-102-978-00	CERAMIC	220PF	5%	Q7015	8-729-423-37	TRANSISTOR 2SC3311A-QRS
C7201	1-124-910-11	ELECT	47MF	20%	Q7016	8-729-119-76	TRANSISTOR 2SA1175-HFE
C7202	1-102-129-00	CERAMIC	0.01MF	10%	Q7017	8-729-119-76	TRANSISTOR 2SA1175-HFE
C7203	1-102-978-00	CERAMIC	220PF	5%	Q7018	8-729-423-37	TRANSISTOR 2SC3311A-QRS
C7204	1-102-978-00	CERAMIC	220PF	5%	Q7019	8-729-423-37	TRANSISTOR 2SC3311A-QRS
<NETWORK>				Q7020	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
CP7201	1-236-479-11	NETWORK, C		Q7026	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
CP7203	1-236-479-11	NETWORK, C		Q7027	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<DIODE>				Q7028	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7001	8-719-911-19	DIODE	ISS119	Q7029	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7002	8-719-911-19	DIODE	ISS119	Q7030	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7003	8-719-911-19	DIODE	ISS119	Q7031	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D7004	8-719-911-19	DIODE	ISS119	Q7032	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7005	8-719-911-19	DIODE	ISS119	Q7033	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7006	8-719-911-19	DIODE	ISS119	Q7035	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7007	8-719-911-19	DIODE	ISS119	Q7036	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D7008	8-719-911-19	DIODE	ISS119	Q7037	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7009	8-719-911-19	DIODE	ISS119	Q7038	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D7010	8-719-911-19	DIODE	ISS119	Q7301	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D7011	8-719-911-19	DIODE	ISS119	<RESISTOR>			
D7012	8-719-911-19	DIODE	ISS119	R7001	1-249-417-11	CARBON	1K 5% 1/4W
D7013	8-719-911-19	DIODE	ISS119	R7002	1-249-423-11	CARBON	3.3K 5% 1/4W
D7014	8-719-911-19	DIODE	ISS119	R7003	1-249-419-11	CARBON	1.5K 5% 1/4W
D7015	8-719-911-19	DIODE	ISS119	R7004	1-249-429-11	CARBON	10K 5% 1/4W
D7016	8-719-911-19	DIODE	ISS119	R7005	1-249-407-11	CARBON	150 5% 1/4W
D7017	8-719-110-06	DIODE	RD8.2ES-B1	R7006	1-249-429-11	CARBON	10K 5% 1/4W
D7018	8-719-109-93	DIODE	RD6.2ES-B2	R7007	1-249-429-11	CARBON	10K 5% 1/4W
D7019	8-719-109-93	DIODE	RD6.2ES-B2	R7008	1-249-421-11	CARBON	2.2K 5% 1/4W
D7020	8-719-109-93	DIODE	RD6.2ES-B2	R7009	1-249-421-11	CARBON	2.2K 5% 1/4W
D7021	8-719-911-19	DIODE	ISS119	R7010	1-249-428-11	CARBON	8.2K 5% 1/4W
<IC>				R7011	1-247-903-00	CARBON	1M 5% 1/4W
IC7001	8-752-813-89	IC	CXP5068H-028S	R7012	1-249-431-11	CARBON	15K 5% 1/4W
IC7002	8-759-403-44	IC	MN1280-S	R7013	1-249-427-11	CARBON	6.8K 5% 1/4W
IC7201	8-759-013-09	IC	MC7812CT	R7014	1-249-423-11	CARBON	3.3K 5% 1/4W
<COIL>				R7015	1-249-421-11	CARBON	2.2K 5% 1/4W
L7001	1-410-671-31	INDUCTOR	47UH	R7016	1-249-417-11	CARBON	1K 5% 1/4W
L7002	1-410-068-11	INDUCTOR	5.6MMH	R7017	1-249-430-11	CARBON	12K 5% 1/4W
L7003	1-410-663-31	INDUCTOR	10UH	R7018	1-249-429-11	CARBON	10K 5% 1/4W
L7004	1-410-478-11	INDUCTOR	47UH	R7020	1-249-425-11	CARBON	4.7K 5% 1/4W
<TRANSISTOR>				R7021	1-247-903-00	CARBON	1M 5% 1/4W
Q7001	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7023	1-249-429-11	CARBON	10K 5% 1/4W
Q7002	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7024	1-249-416-11	CARBON	820 5% 1/4W
Q7003	8-729-600-12	TRANSISTOR	2SK108-C	R7025	1-249-425-11	CARBON	4.7K 5% 1/4W
Q7004	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7026	1-249-429-11	CARBON	10K 5% 1/4W
Q7005	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7027	1-249-414-11	CARBON	560 5% 1/4W
Q7006	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7028	1-249-429-11	CARBON	10K 5% 1/4W
Q7007	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7029	1-249-425-11	CARBON	4.7K 5% 1/4W
Q7008	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7030	1-249-429-11	CARBON	10K 5% 1/4W
Q7009	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7031	1-249-421-11	CARBON	2.2K 5% 1/4W
Q7010	8-729-119-76	TRANSISTOR	2SA1175-HFE	R7032	1-249-417-11	CARBON	1K 5% 1/4W
Q7011	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7033	1-249-437-11	CARBON	47K 5% 1/4W
Q7012	8-729-423-37	TRANSISTOR	2SC3311A-QRS	R7036	1-249-429-11	CARBON	10K 5% 1/4W
				R7038	1-249-417-11	CARBON	1K 5% 1/4W
				R7040	1-249-423-11	CARBON	3.3K 5% 1/4W
				R7041	1-249-429-11	CARBON	10K 5% 1/4W
				R7042	1-249-425-11	CARBON	4.7K 5% 1/4W
				R7043	1-249-432-11	CARBON	18K 5% 1/4W
				R7044	1-249-426-11	CARBON	5.6K 5% 1/4W
				R7046	1-249-421-11	CARBON	2.2K 5% 1/4W
				R7047	1-249-429-11	CARBON	10K 5% 1/4W

T Fo

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

The components identified by
shading and mark Δ are criti-
cal for safety.
Replace only with part number
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R7048	1-249-429-11	CARBON 10K 5% 1/4W	
R7063	1-249-405-11	CARBON 100 5% 1/4W	
R7064	1-249-405-11	CARBON 100 5% 1/4W	
R7066	1-249-405-11	CARBON 100 5% 1/4W	
R7068	1-249-438-11	CARBON 56K 5% 1/4W	
R7069	1-249-433-11	CARBON 22K 5% 1/4W	
R7079	1-249-413-11	CARBON 470 5% 1/4W	
R7080	1-249-417-11	CARBON 1K 5% 1/4W	
R7081	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7082	1-249-417-11	CARBON 1K 5% 1/4W	
R7083	1-249-419-11	CARBON 1.5K 5% 1/4W	
R7084	1-249-418-11	CARBON 1.2K 5% 1/4W	
R7085	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7086	1-249-429-11	CARBON 10K 5% 1/4W	
R7087	1-249-429-11	CARBON 10K 5% 1/4W	
R7088	1-249-405-11	CARBON 100 5% 1/4W	
R7089	1-249-427-11	CARBON 6.8K 5% 1/4W	
R7090	1-249-427-11	CARBON 6.8K 5% 1/4W	
R7091	1-249-433-11	CARBON 22K 5% 1/4W	
R7092	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7093	1-247-889-00	CARBON 270K 5% 1/4W	
R7094	1-249-427-11	CARBON 6.8K 5% 1/4W	
R7095	1-249-413-11	CARBON 470 5% 1/4W	
R7096	1-249-426-11	CARBON 5.6K 5% 1/4W	
R7097	1-249-423-11	CARBON 3.3K 5% 1/4W	
R7098	1-249-433-11	CARBON 22K 5% 1/4W	
R7099	1-249-434-11	CARBON 27K 5% 1/4W	
R7104	1-249-441-11	CARBON 100K 5% 1/4W	
R7105	1-249-429-11	CARBON 10K 5% 1/4W	
R7106	1-249-434-11	CARBON 27K 5% 1/4W	
R7107	1-249-412-11	CARBON 390 5% 1/4W	
R7108	1-249-423-11	CARBON 3.3K 5% 1/4W	
R7109	1-249-413-11	CARBON 470 5% 1/4W	
R7110	1-249-413-11	CARBON 470 5% 1/4W	
R7111	1-249-417-11	CARBON 1K 5% 1/4W	
R7112	1-249-436-11	CARBON 39K 5% 1/4W	
R7113	1-249-433-11	CARBON 22K 5% 1/4W	
R7114	1-249-432-11	CARBON 18K 5% 1/4W	
R7115	1-249-425-11	CARBON 4.7K 5% 1/4W	
R7116	1-249-425-11	CARBON 4.7K 5% 1/4W	
R7117	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7118	1-249-412-11	CARBON 390 5% 1/4W	
R7119	1-249-405-11	CARBON 100 5% 1/4W	
R7120	1-249-405-11	CARBON 100 5% 1/4W	
R7121	1-249-405-11	CARBON 100 5% 1/4W	
R7122	1-249-405-11	CARBON 100 5% 1/4W	
R7124	1-249-429-11	CARBON 10K 5% 1/4W	
R7125	1-249-422-11	CARBON 2.7K 5% 1/4W	
R7126	1-247-895-00	CARBON 470K 5% 1/4W	
R7127	1-247-903-00	CARBON 1M 5% 1/4W	
R7128	1-249-429-11	CARBON 10K 5% 1/4W	
R7129	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7130	1-249-417-11	CARBON 1K 5% 1/4W	
R7131	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7132	1-249-429-11	CARBON 10K 5% 1/4W	
R7133	1-249-431-11	CARBON 15K 5% 1/4W	
R7201	1-216-379-11	METAL OXIDE 6.8 5% 2W F	
R7301	1-249-437-11	CARBON 47K 5% 1/4W	
R7302	1-249-441-11	CARBON 100K 5% 1/4W	
R7304	1-249-437-11	CARBON 47K 5% 1/4W	
R7305	1-249-441-11	CARBON 100K 5% 1/4W	
R7306	1-249-437-11	CARBON 47K 5% 1/4W	

REF.NO. PART NO. DESCRIPTION REMARK

<CRYSTAL>

X7001 1-577-071-11 VIBRATOR, CERAMIC

*1-629-628-11 FO BOARD

MISCELLANEOUS

Δ 1-417-177-11 SELECTOR, ANTENNA (AS-1)
 Δ 1-426-350-11 COIL, DEMAGNETIZATION
 Δ 1-451-275-31 DEFLECTION YOKE (Y28PFA)
 1-452-032-00 MAGNET, DISK; 10MM ϕ
 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ

*1-556-945-21 CABLE, P-P
 Δ 1-559-396-11 CORD, POWER
 *1-568-507-11 CONNECTOR, BRIDGE 15P
 8-741-101-19 IC SBX1652-01

V901 Δ 8-737-753-05 PICTURE TUBE (A68JMT50X)

ACCESSORIES AND PACKING MATERIALS

PART NO. DESCRIPTION

REMARK

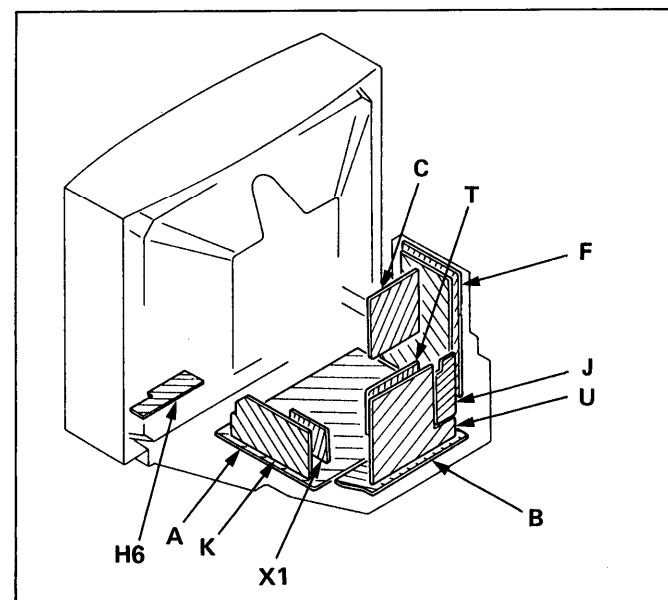
A-1470-904-A COMMANDER ASSY, CARD (RM-KIT)
 *A-1478-507-A WOOFER BLOCK ASSY
 *A-1478-508-A SP BLOCK ASSY
 X-4374-104-1 SCREW (B) ASSY, ORNAMENTAL
 1-465-438-11 REMOTE COMMANDER (RM-786)

1-513-379-00 CONVERTER (EAC-25) (CND ONLY)
 1-559-942-11 CORD, SPEAKER CONNECTION
 1-562-443-11 CONNECTOR, ANTENNA (USA ONLY)
 *3-704-281-01 BAG, PROTECTION (STANDARD)
 *3-704-301-01 BAG (STANDARD), PROTECTION

-3-750-054-41 MANUAL, INSTRUCTION
 3-750-054-51 MANUAL, INSTRUCTION (CND ONLY)
 *4-384-027-01 BAG, PROTECTION
 *4-389-635-01 BOX, SPEAKER

*4-393-459-01 INDIVIDUAL CARTON
 *4-393-460-01 CUSHION (UPPER) (ASSY)
 *4-393-461-01 CUSHION (LOWER) (ASSY)

6-3. CIRCUIT BOARDS LOCATION

6-4. SCHEMATIC DIAGRAMS AND
PRINTED WIRING BOARDS —CONDUCTOR SIDE—

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in μF unless otherwise noted.
- pF: μF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

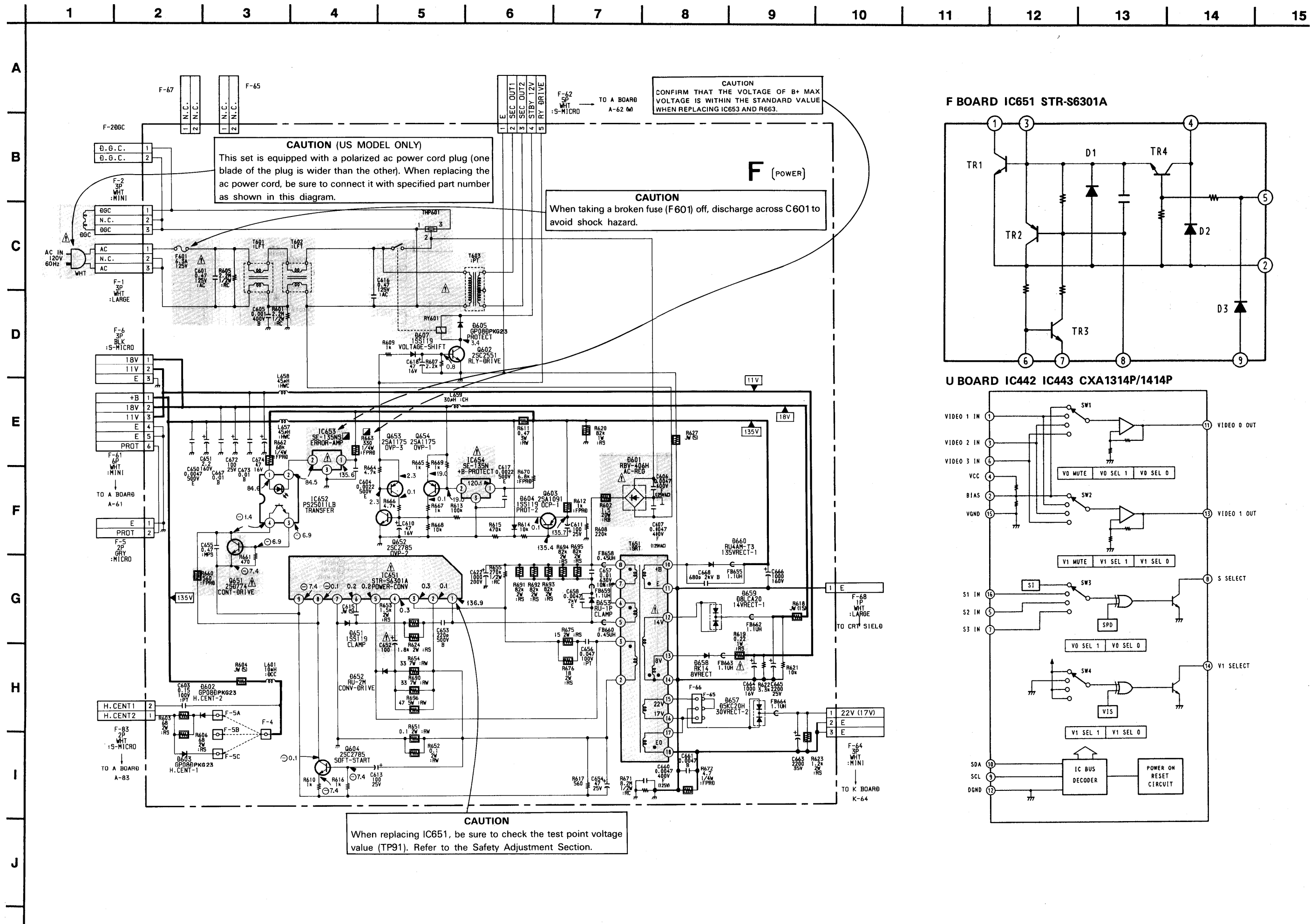
- When replacing the part in below table be sure to perform the related adjustment.

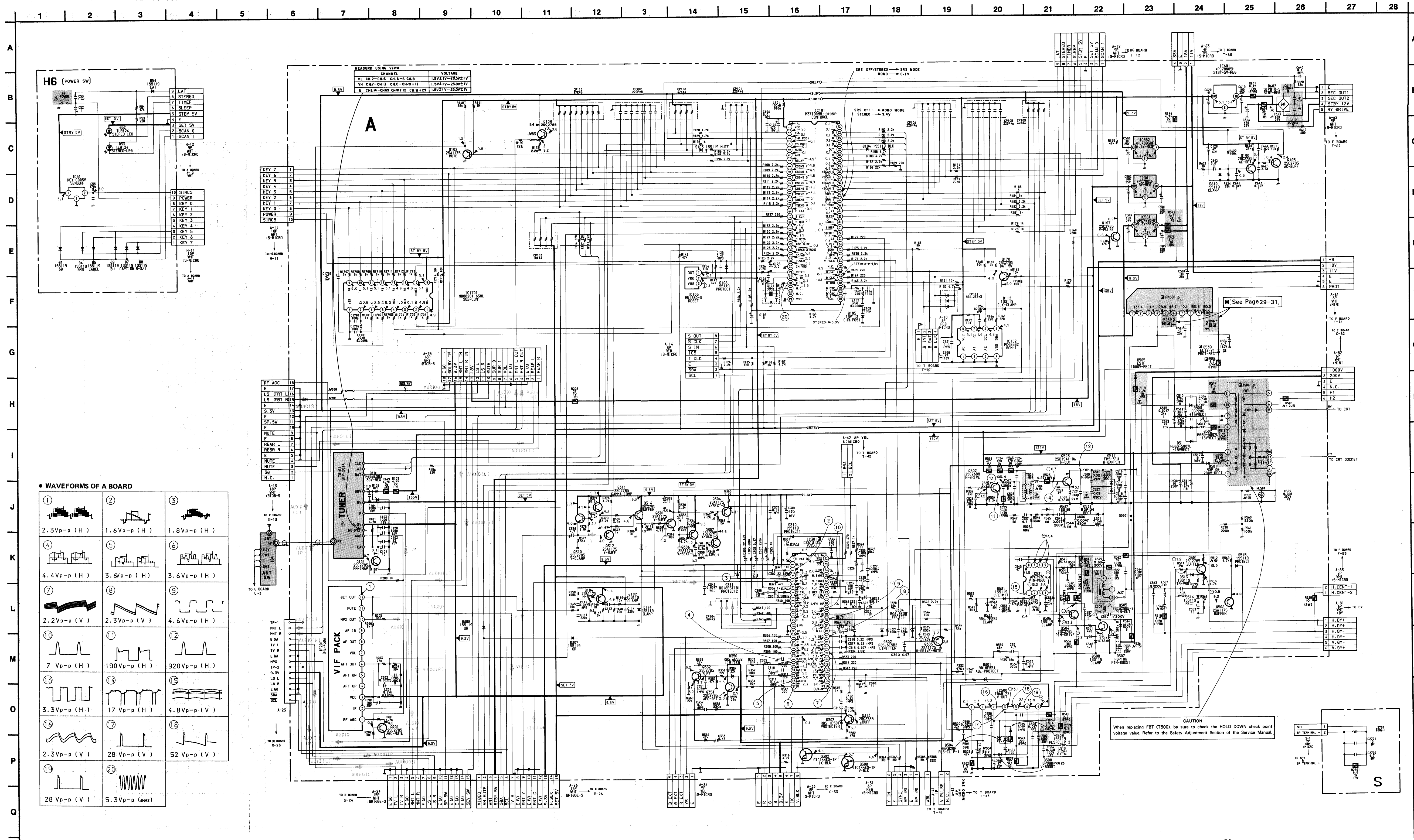
Part replaced ()	Adjustment ()
IC301, PM501, R549, R564	R549 (HOLD-DOWN)
IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500	R567 (HOLD-DOWN)

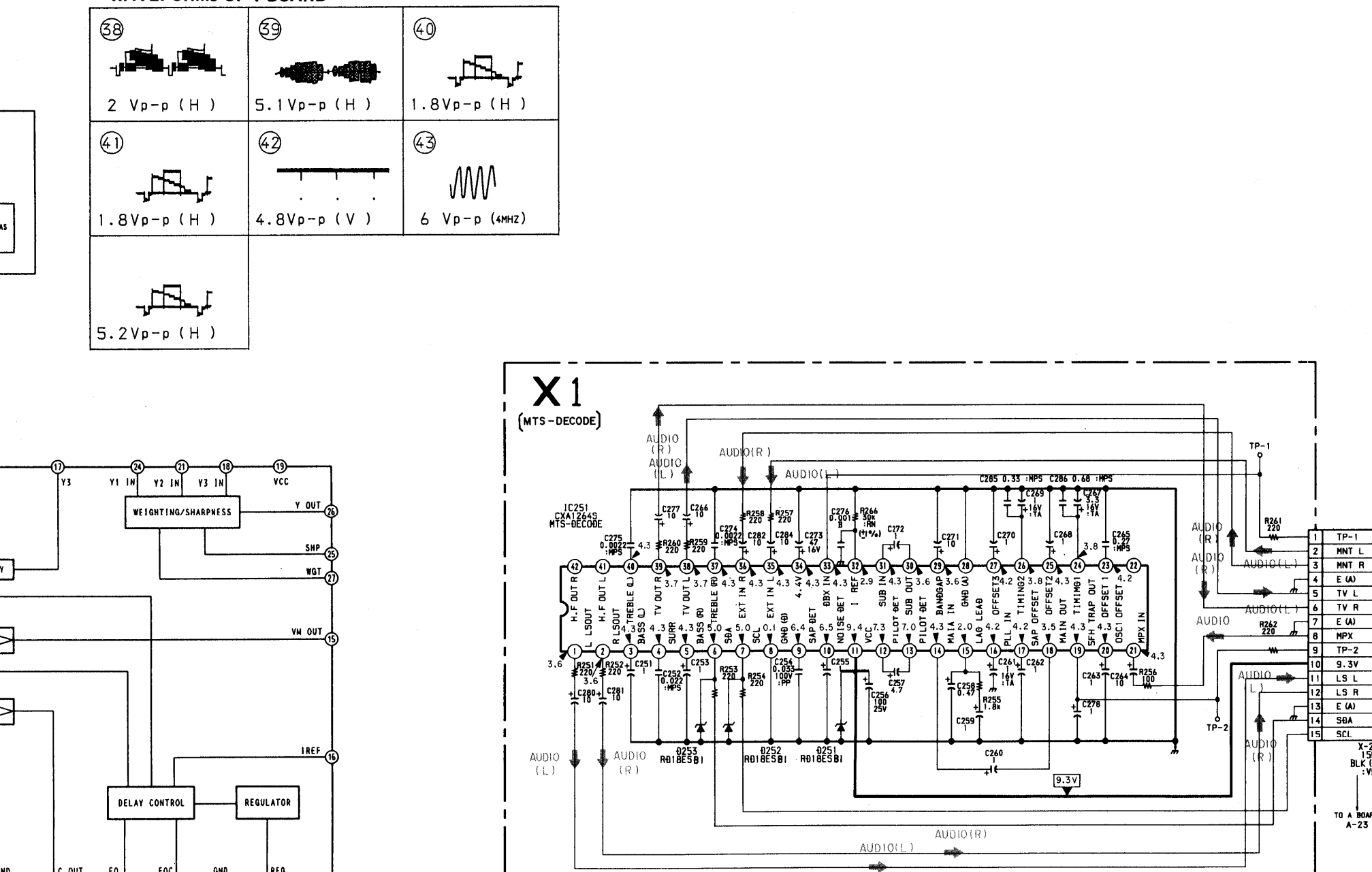
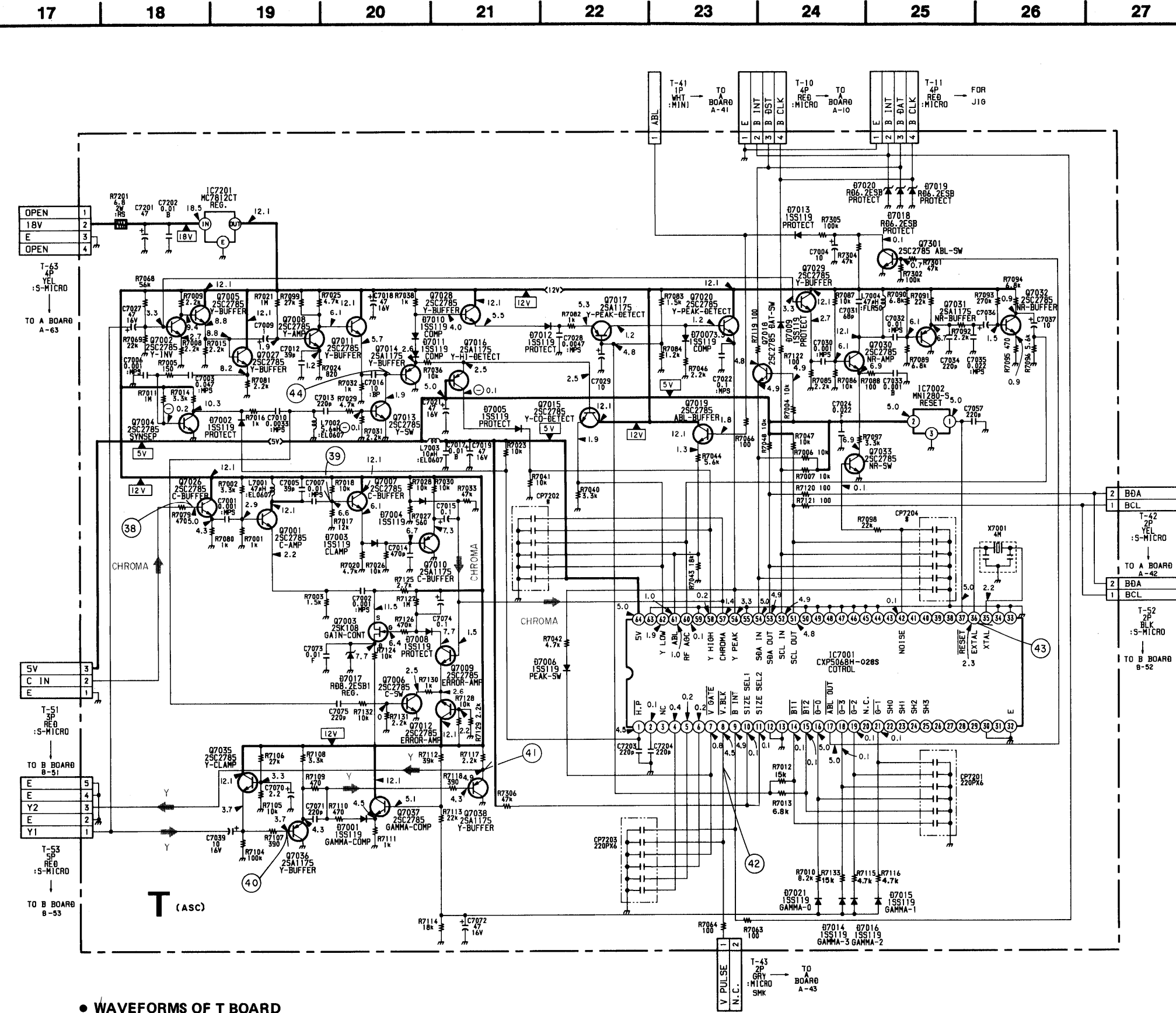
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- : B- bus.
- : signal path.

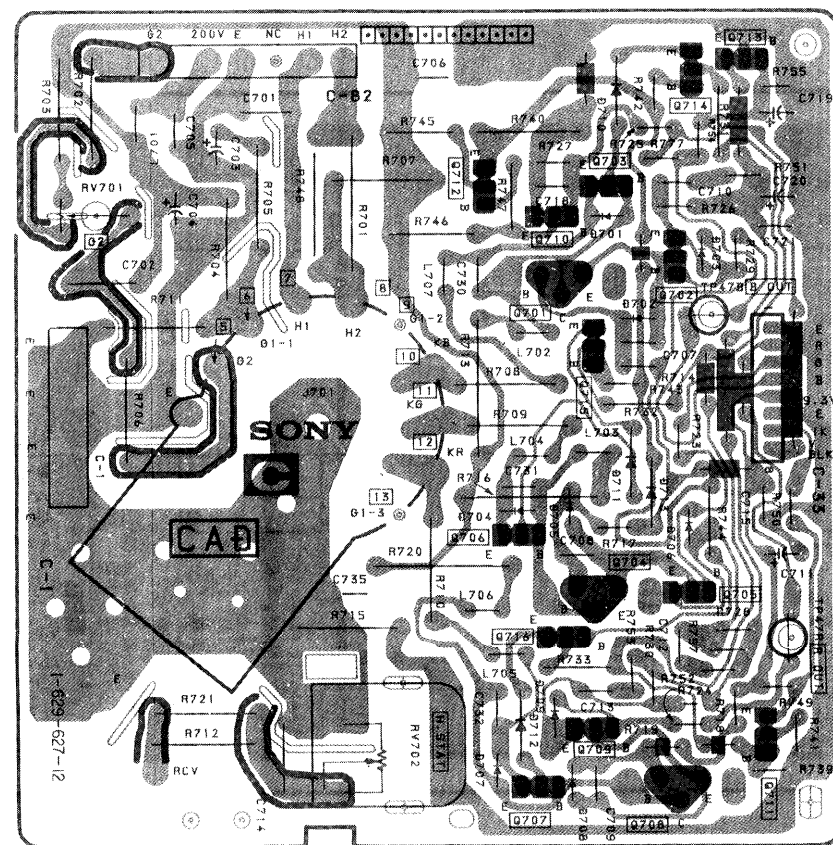
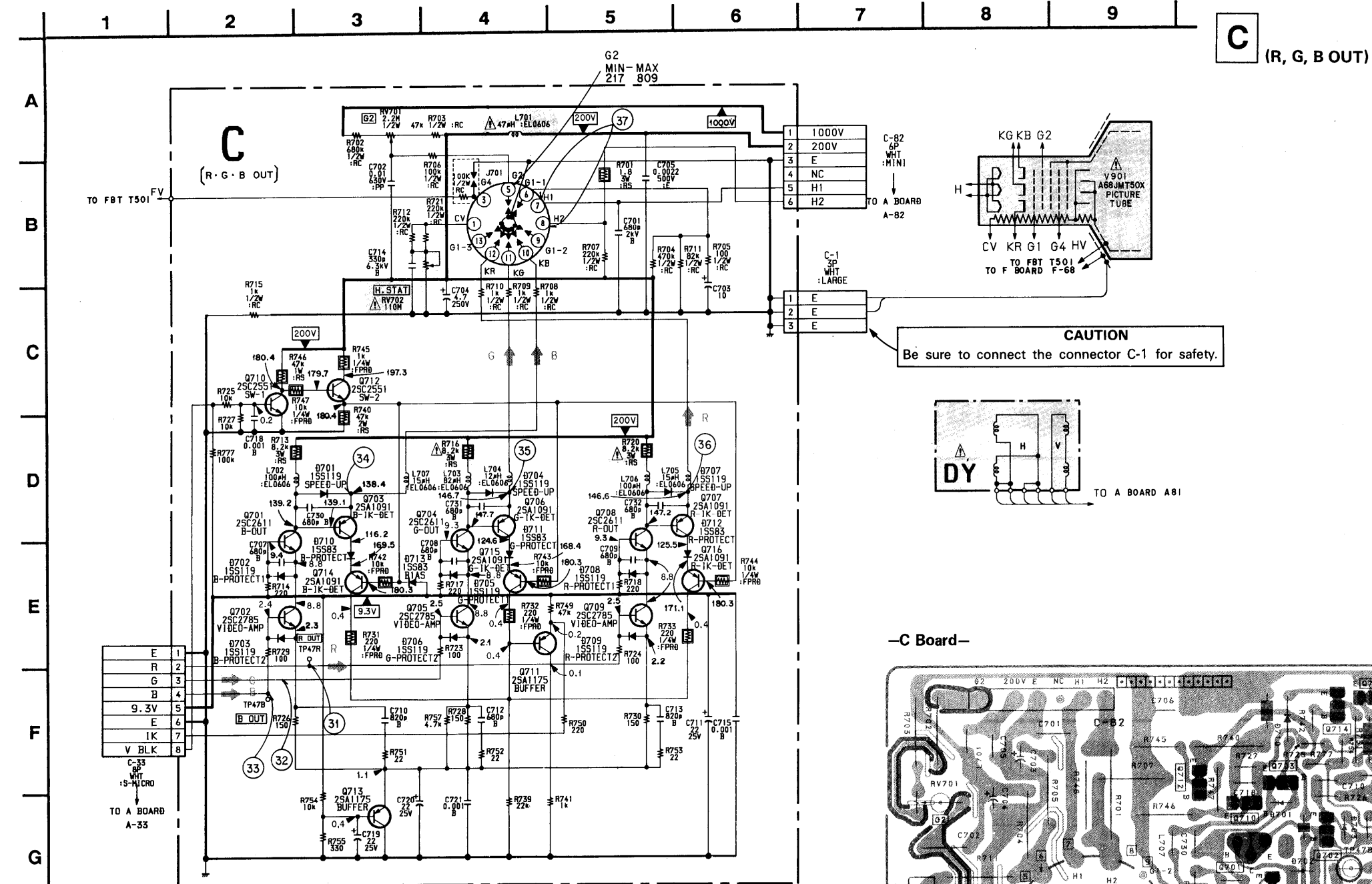
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE



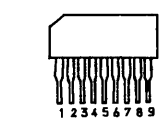
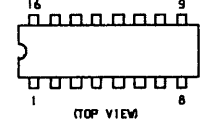




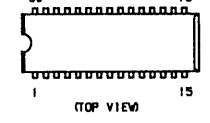


6-5. SEMICONDUCTORS

NJM2233BS

CXA1315P
MB88201-638L
CXA1314P

CXA1387S



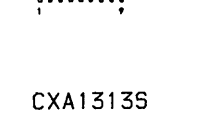
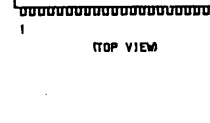
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SE-135NS

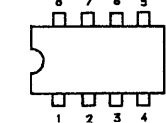
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CXA1313S

CXA1264S
CXA1264AS

#PC393C



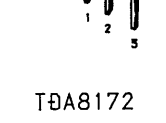
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MN1280-S



TDA8172



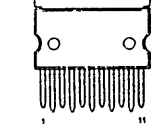
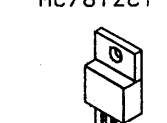
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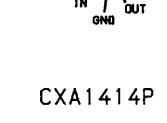
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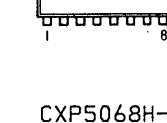
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M5F7805
MC7812CT

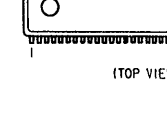
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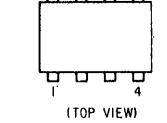
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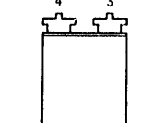
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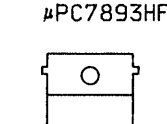
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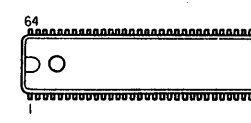
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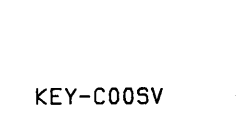
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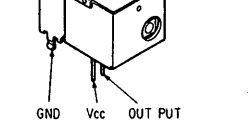
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KEY-C00SV



CXA1414P



CXP5068H-028S



PC8582



PS2501-1LB



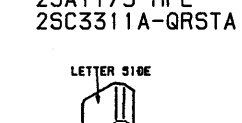
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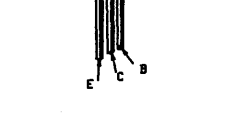
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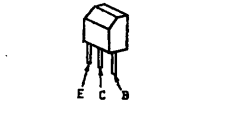
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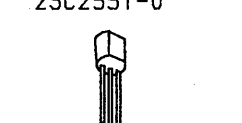
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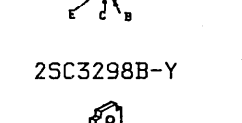
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25C2785-HFE



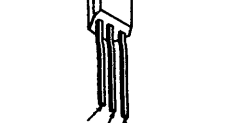
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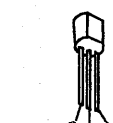
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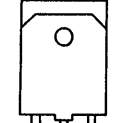
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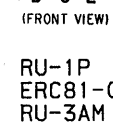
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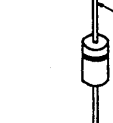
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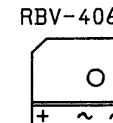
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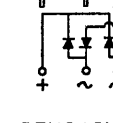
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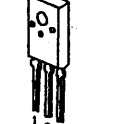
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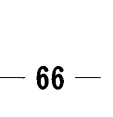
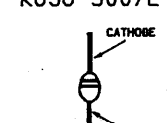
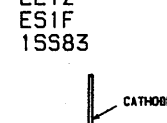
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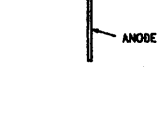
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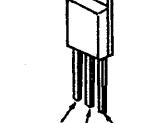
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15S83

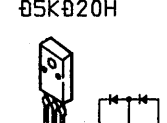
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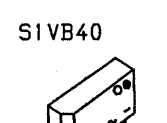
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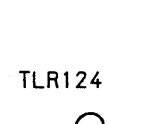
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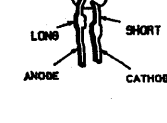
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RBV-406H-01



RBV-406H-01



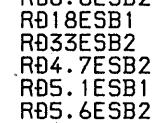
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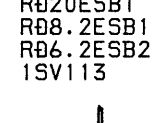
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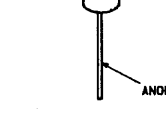
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15S119



15S119



15S119



15S119



15S119



15S119



15S119



15S119

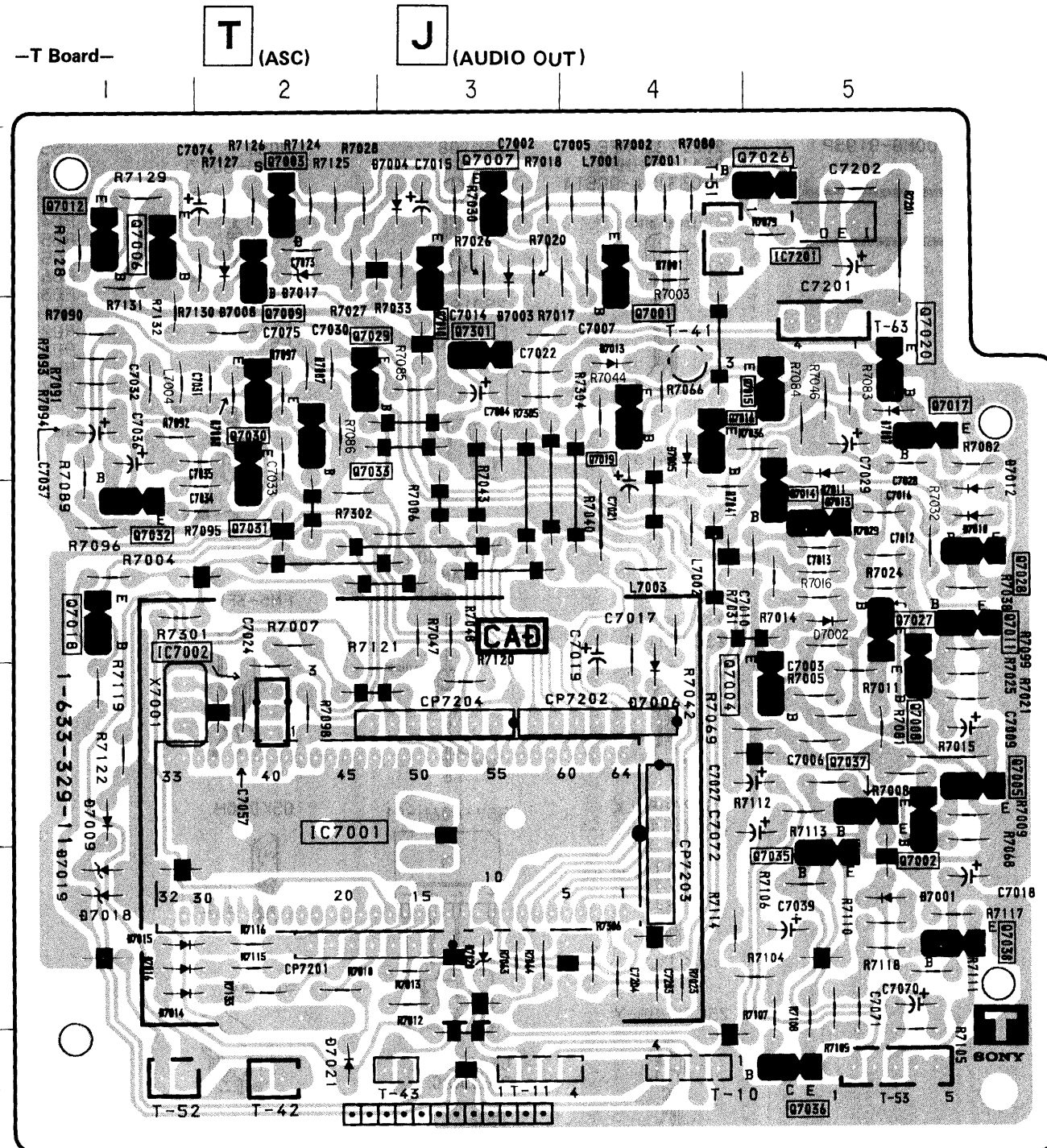


15S119



NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



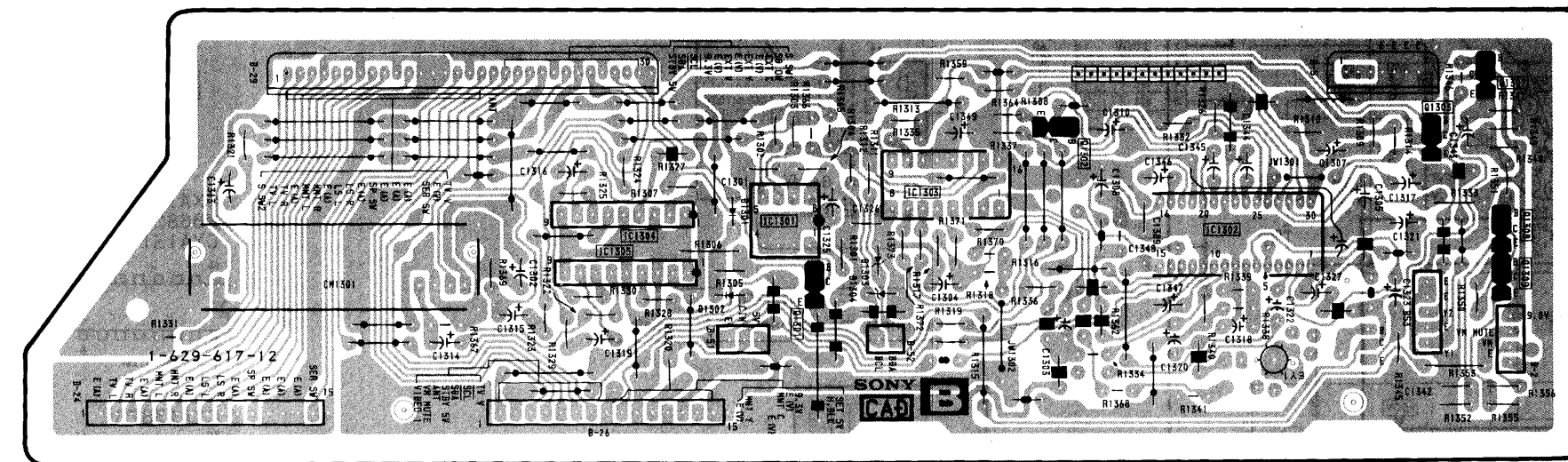
LOCATION OF T BOARD

IC	DIODE
IC7001 B-3	Q7001 A-4
IC7002 B-2	Q7002 C-5
IC7201 A-5	Q7003 A-3
	Q7004 A-5
	Q7005 B-4
	Q7006 B-4
	Q7007 B-5
	Q7008 A-2
	Q7009 B-1
	Q7010 C-6
	Q7011 B-5
	Q7012 C-6
	Q7013 B-4
	Q7014 E-1
	Q7015 E-1
	Q7016 E-1
	Q7017 A-2
	Q7018 E-1
	Q7019 E-1
	Q7020 E-5
	Q7021 E-2

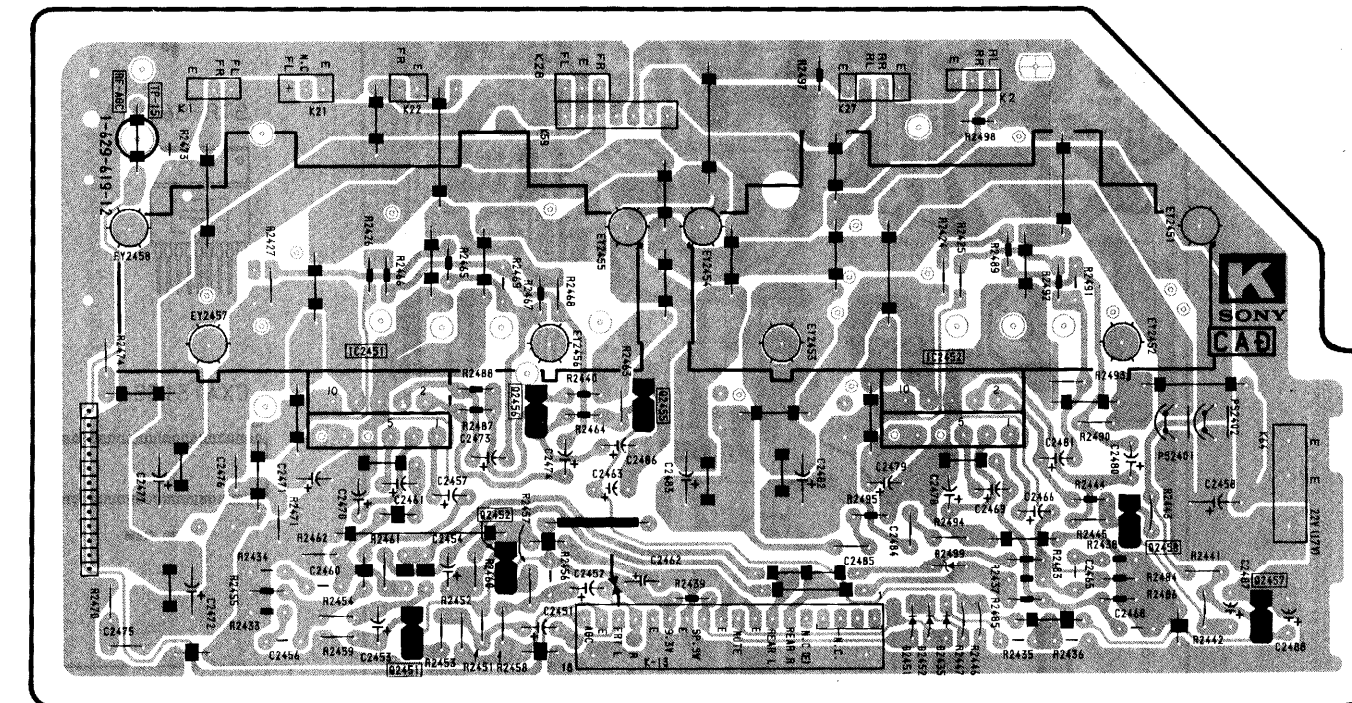
TRANSISTER
Q7001 A-4
Q7002 B-5
Q7003 A-2
Q7004 B-5
Q7005 B-6
Q7006 A-6
Q7007 A-3
Q7008 B-5
Q7009 A-2
Q7010 A-3
Q7011 C-6
Q7012 A-6
Q7013 C-5
Q7014 C-5
Q7015 B-5
Q7016 B-4
Q7017 B-5
Q7018 C-1
Q7019 B-4
Q7020 B-5
Q7021 A-5
Q7022 C-5
Q7023 C-6
Q7024 B-2
Q7025 B-2
Q7026 C-1
Q7027 C-1
Q7028 B-2
Q7029 F-5
Q7030 B-5
Q7031 F-5
Q7032 B-2
Q7033 F-5
Q7034 B-5
Q7035 F-5
Q7036 B-5
Q7037 F-5
Q7038 B-3
Q7039 B-3

B (Y/C CONT, D/A CONV, Y/C SW) **K** (AUDIO AMP)

—B Board—

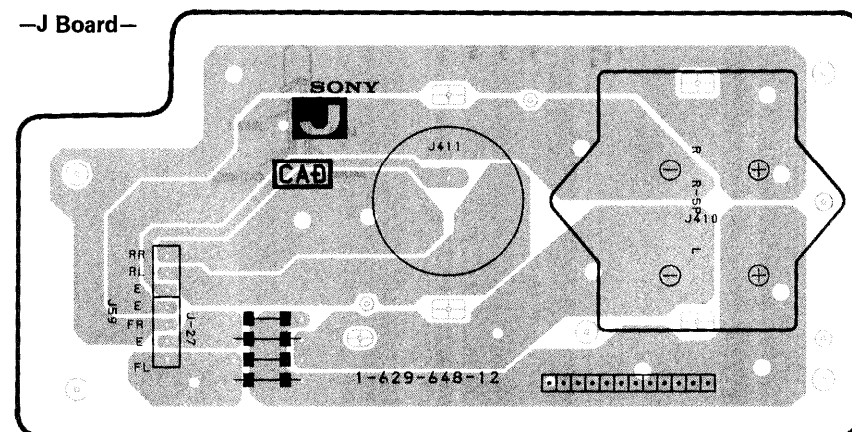
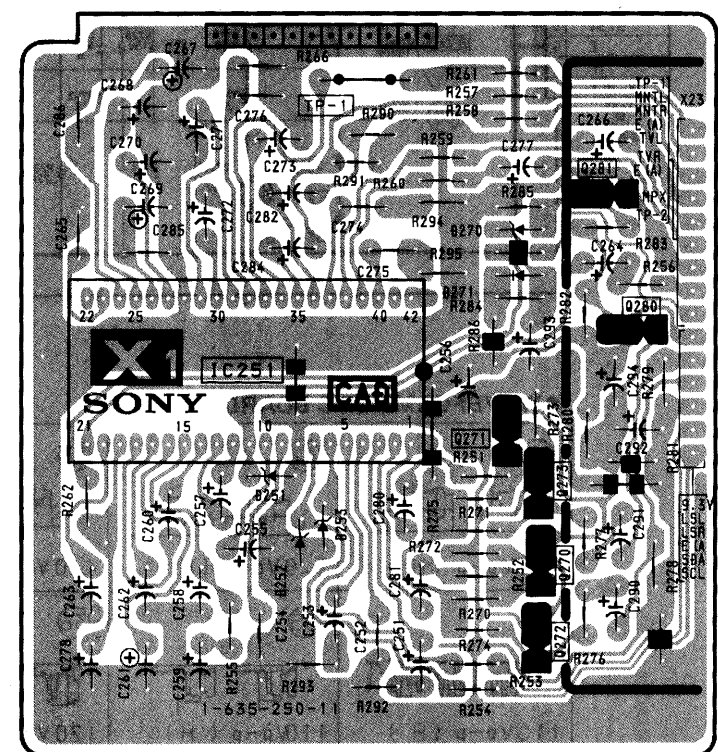


—K Board—



X1 (MTS-DECODE)

—X1 Board—



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